

N 7 2 - 2 7 3 4 9

NASA TECHNICAL MEMORANDUM

MSC-05801
NASA TM X-58084
January 1972



INTERPOLATION CONSTANTS FOR CALCULATION
OF TRANSMITTANCE AND RATE OF DISSOCIATION
OF MOLECULAR OXYGEN IN THE MESOSPHERE
AND LOWER THERMOSPHERE

CASE FILE
COPY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS 77058

INTERPOLATION CONSTANTS FOR CALCULATION
OF TRANSMITTANCE AND RATE OF DISSOCIATION
OF MOLECULAR OXYGEN IN THE MESOSPHERE
AND LOWER THERMOSPHERE

Robert D. Hudson and Stephen H. Mahle
Manned Spacecraft Center
Houston, Texas 77058

ABSTRACT

Values of band oscillator strengths and rotational line widths for the Schumann-Runge band system have been used to derive interpolation constants from which the transmittance and rate of dissociation of molecular oxygen can be calculated. These constants, valid for temperatures between 150° and 300° K and for column densities between $1 \times 10^{17} \text{ cm}^{-2}$ and $7 \times 10^{24} \text{ cm}^{-2}$, cover the wavelength range 1750 to 2050 Å.

CONTENTS

Section	Page
SUMMARY	1
INTRODUCTION	1
DISCUSSION	2
CONCLUDING REMARKS	3
REFERENCES	3

TABLE

Table	Page
I INTERPOLATION CONSTANTS FOR CALCULATION OF TRANSMITTANCE AND RATE OF DISSOCIATION	
(a) Wavelength interval from 1750.0 to 1763.2 Å	4
(b) Wavelength interval from 1763.2 to 1768.6 Å	4
(c) Wavelength interval from 1768.6 to 1774.6 Å	5
(d) Wavelength interval from 1774.6 to 1782.6 Å	6
(e) Wavelength interval from 1782.6 to 1792.6 Å	7
(f) Wavelength interval from 1792.6 to 1803.6 Å	8
(g) Wavelength interval from 1803.6 to 1816.4 Å	9
(h) Wavelength interval from 1816.4 to 1830.6 Å	10
(i) Wavelength interval from 1830.6 to 1846.2 Å	11
(j) Wavelength interval from 1846.2 to 1863.4 Å	12
(k) Wavelength interval from 1863.4 to 1882.2 Å	13
(l) Wavelength interval from 1882.2 to 1902.4 Å	14
(m) Wavelength interval from 1902.4 to 1924.0 Å	15
(n) Wavelength interval from 1924.0 to 1947.0 Å	16
(o) Wavelength interval from 1947.0 to 1971.8 Å	17
(p) Wavelength interval from 1971.8 to 1985.0 Å	18
(q) Wavelength interval from 1985.0 to 2000.0 Å	19
(r) Wavelength interval from 2000.0 to 2025.0 Å	20
(s) Wavelength interval from 2025.0 to 2050.0 Å	21

INTERPOLATION CONSTANTS FOR CALCULATION
OF TRANSMITTANCE AND RATE OF DISSOCIATION
OF MOLECULAR OXYGEN IN THE MESOSPHERE
AND LOWER THERMOSPHERE

By Robert D. Hudson and Stephen H. Mahle
Manned Spacecraft Center

SUMMARY

This report contains tables of interpolation constants from which the transmittance and rate of dissociation of molecular oxygen between 1750 and 2050 Å can be derived. These constants are based upon recent values of the band oscillator strengths and rotational line widths that have been obtained by the authors. Values of the constants that are given cover temperatures between 150° and 300° K and column densities between $1 \times 10^{17} \text{ cm}^{-2}$ and $7 \times 10^{24} \text{ cm}^{-2}$.

INTRODUCTION

In a recent paper, Hudson and Mahle (ref. 1) used values of band oscillator strengths and rotational line widths for the Schumann-Runge band system that they had recently obtained to calculate the photodissociation rate of molecular oxygen by solar radiation between 1025 and 2500 Å in the altitude range of 40 to 120 kilometers. For the wavelength region between 1750 and 2050 Å, values of the transmittance and rate of dissociation were used that had been averaged over wavelength intervals corresponding in most cases to intervals between band heads of the Schumann-Runge system. This report contains interpolation constants from which these averaged quantities can be calculated for temperatures between 150° and 300° K, and for column densities between $1 \times 10^{17} \text{ cm}^{-2}$ and $7 \times 10^{24} \text{ cm}^{-2}$.

DISCUSSION

The transmittance and rate of dissociation are two quantities generally required in calculating the effect of the absorption of solar radiation in the atmosphere. The transmittance $\tau(\lambda)$ of solar radiation at a given column density N is given by

$$\tau(\lambda) = \exp[-N\sigma_T(\lambda)] \quad (1)$$

and the rate of dissociation, which Hudson et al. (ref. 2) have denoted by the symbol $\chi(\lambda)$, is given by

$$\chi(\lambda) = \frac{\sigma_D}{\sigma_T} \exp[-N\sigma_T(\lambda)] \quad (2)$$

where σ_T is the total absorption cross section, and σ_D is the partial cross section leading to dissociation.

Hudson et al. (ref. 2) obtained values of χ that had been averaged over wavelength intervals that correspond, in most cases, to intervals between the band heads of the $v'' = 0$ and $v' = 2$ to 17 transitions. For many aeronomic computations, these averaged values have been found to be quite sufficient; therefore, the quantities $\tau(\lambda_i - \lambda_f, N)$ and $\chi(\lambda_i - \lambda_f, N)$ have been calculated where

$$\tau(\lambda_i - \lambda_f, N) = \frac{\int_{\lambda_i}^{\lambda_f} \exp[-N\sigma_T(\lambda)] d\lambda}{\int_{\lambda_i}^{\lambda_f} d\lambda} \quad (3)$$

and

$$\chi(\lambda_i - \lambda_f, N) = \frac{\int_{\lambda_i}^{\lambda_f} \frac{\sigma_D(\lambda)}{\sigma_T(\lambda)} \exp[-N\sigma_T(\lambda)] d\lambda}{\int_{\lambda_i}^{\lambda_f} d\lambda} \quad (4)$$

at temperatures of 150°, 200°, 250°, and 300° K. The variation of τ and χ with temperature is smooth and, within an accuracy of ± 1.0 percent, can be fitted for a given wavelength interval by using the following empirical relationships.

$$\ln [\tau (N, T)] = A + B(T - 150) + C(T - 150)^2 \quad (5)$$

$$\ln [\chi (N, T)] = D + E(T - 150) + F(T - 150)^2 \quad (6)$$

The calculated values of these constants, as functions of column density for wavelength intervals between 1750 and 2050 Å, are given in table I.

CONCLUDING REMARKS

In the following table, for values of τ less than 10^{-4} , the calculations become very sensitive to the choice of input parameters, and no significance can be attached to the results. For this reason, no values of τ less than 10^{-4} have been given. The calculations were not performed for wavelengths greater than 2050 Å; because, beyond this point, the contribution from the bands is negligible at temperatures below 300° K, and a pure continuum cross section can be assumed.

Manned Spacecraft Center
National Aeronautics and Space Administration
Houston, Texas, January 11, 1972
185-47-32-02-72

REFERENCES

1. Hudson, R. D.; Mahle, S. H.: Photodissociation of Molecular Oxygen in the Mesosphere and Lower Thermosphere. *J. Geophys. Res.*, vol. 77, no. 16, June 1, 1972, pp. 2902-2914.
2. Hudson, R. D.; Carter, V. L.; and Breig, E. L.: Predissociation in the Schumann-Runge System of O_2 : Laboratory Measurements and Atmospheric Effects. *J. Geophys. Res.*, vol. 74, no. 16, Aug. 1, 1969, pp. 4079-4086.

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE
AND RATE OF DISSOCIATION

(a) Wavelength interval from 1750.0 to 1763.2 Å

COLUMN. DENSITY	A	B	C	D	E	F
.1000+18	-.2452+01	.1977+04	-.7928+08	-.4290+02	-.7393+03	-.7710+07
.2000+18	-.4839+01	.3696+04	-.1061+07	-.4294+02	-.6388+03	-.2445+06
.3000+18	-.7169+01	.5191+03	-.8924+08	-.4299+02	-.5491+03	-.3852+06
.4000+18	-.9444+01	.6491+04	-.3649+08	-.4304+02	-.4689+03	-.5027+06
.5000+18	-.1167+00	.7622+04	.4575+08	-.4308+02	-.3973+03	-.5998+06
.6000+18	-.1385+00	.8606+04	.1522+07	-.4312+02	-.3334+03	-.6793+06
.7000+18	-.1599+00	.9461+04	.2782+07	-.4316+02	-.2763+03	-.7434+06
.8000+18	-.1808+00	.1020+03	.4204+07	-.4320+02	-.2254+03	-.7046+06
.9000+18	-.2014+00	.1045+03	.5753+07	-.4324+02	-.1800+03	-.6340+06
.1000+19	-.2217+00	.1141+03	.7404+07	-.4328+02	-.1395+03	-.6338+06
.2000+19	-.4096+00	.1405+03	.2616+06	-.4359+02	.8847+04	-.8528+06
.3000+19	-.5792+00	.1429+03	.4459+06	-.4344+02	.1604+03	-.6466+06
.4000+19	-.7371+00	.1380+03	.6130+06	-.4446+02	.1820+03	-.4336+06
.5000+19	-.8867+00	.1304+03	.7660+06	-.4426+02	.1882+03	-.2522+06
.6000+19	-.1030+01	.1215+03	.9104+06	-.4444+02	.1905+03	-.1026+06
.7000+19	-.1168+01	.1113+03	.1050+05	-.4462+02	.1924+03	-.2284+07
.8000+19	-.1301+01	.9976+04	.1188+05	-.4478+02	.1944+03	-.1328+06
.9000+19	-.1430+01	.8668+04	.1327+05	-.4494+02	.1965+03	-.2337+06
.1000+20	-.1555+01	.7200+04	.1466+05	-.4510+02	.1980+03	-.3005+06
.2000+20	-.2644+01	-.1548+03	.2942+05	-.4642+02	.1334+03	-.1412+05
.3000+20	-.3544+01	-.4617+03	.4196+05	-.4749+02	-.8010+04	-.2750+05
.4000+20	-.4323+01	-.7752+03	.5668+05	-.4838+02	-.3672+03	-.4097+05
.5000+20	-.5031+01	-.1066+02	.6745+05	-.4916+02	-.6660+03	-.5307+05
.6000+20	-.5694+01	-.1326+02	.7661+05	-.4988+02	-.9489+03	-.6356+05
.7000+20	-.6327+01	-.1560+02	.8456+05	-.5055+02	-.1208+02	-.7264+05
.8000+20	-.6939+01	-.1771+02	.9161+05	-.5119+02	-.1442+02	-.8059+05
.9000+20	-.7535+01	-.1963+02	.9801+05	-.5181+02	-.1654+02	-.9768+05
.1000+21	-.8110+01	-.2139+02	.1039+04	-.5242+02	-.1848+02	-.9410+05

(b) Wavelength interval from 1763.2 to 1768.6 Å

COLUMN. DENSITY	A	B	C	D	E	F
.1000+18	-.2133+01	-.1065+04	.6075+07	-.4306+02	.6176+03	-.3119+05
.2000+18	-.4132+01	-.2568+04	.1317+06	-.4314+02	.8290+03	-.3661+05
.3000+18	-.6016+01	-.4397+04	.2095+06	-.4321+02	.1005+02	-.4097+05
.4000+18	-.7796+01	-.6464+04	.2917+06	-.4329+02	.1149+02	-.4438+05
.5000+18	-.9487+01	-.8697+04	.3763+06	-.4335+02	.1265+02	-.4698+05
.6000+18	-.1110+00	-.1104+03	.4620+06	-.4342+02	.1356+02	-.4886+05
.7000+18	-.1264+00	-.1345+03	.5476+06	-.4347+02	.1424+02	-.5014+05
.8000+18	-.1411+00	-.1590+03	.6325+06	-.4353+02	.1475+02	-.5092+05
.9000+18	-.1553+00	-.1835+03	.7160+06	-.4358+02	.1509+02	-.5128+05
.1000+19	-.1690+00	-.2079+03	.7979+06	-.4363+02	.1529+02	-.5130+05
.2000+19	-.2866+00	-.4286+03	.1508+05	-.4400+02	.1354+02	-.4342+05
.3000+19	-.3836+00	-.6004+03	.2061+05	-.4424+02	.1015+02	-.3385+05
.4000+19	-.4694+00	-.7368+03	.2520+05	-.4443+02	.7159+03	-.2573+05
.5000+19	-.5481+00	-.8494+03	.2915+05	-.4458+02	.4696+03	-.1861+05
.6000+19	-.6217+00	-.9453+03	.3262+05	-.4471+02	.2664+03	-.1228+05
.7000+19	-.6914+00	-.1029+02	.3572+05	-.4483+02	.9727+04	-.6670+06
.8000+19	-.7579+00	-.1104+02	.3852+05	-.4494+02	-.4512+04	-.1719+06
.9000+19	-.8219+00	-.1171+02	.4108+05	-.4504+02	-.1667+03	-.2657+06
.1000+20	-.8837+00	-.1234+02	.4345+05	-.4514+02	-.2722+03	-.6548+06
.2000+20	-.1427+01	-.1703+02	.6143+05	-.4584+02	-.9411+03	-.3216+05
.3000+20	-.1895+01	-.2040+02	.7433+05	-.4646+02	-.1395+02	-.4036+05
.4000+20	-.2324+01	-.2297+02	.8436+05	-.4696+02	-.1768+02	-.6336+05
.5000+20	-.2726+01	-.2491+02	.9216+05	-.4741+02	-.2076+02	-.7509+05
.6000+20	-.3110+01	-.2631+02	.9807+05	-.4784+02	-.2326+02	-.8481+05
.7000+20	-.3478+01	-.2727+02	.1024+04	-.4825+02	-.2520+02	-.9268+05
.8000+20	-.3835+01	-.2786+02	.1053+04	-.4863+02	-.2666+02	-.9885+05
.9000+20	-.4181+01	-.2815+02	.1071+04	-.4901+02	-.2770+02	-.1035+04
.1000+21	-.4519+01	-.2821+02	.1079+04	-.4937+02	-.2838+02	-.1069+04
.2000+21	-.7587+01	-.2334+02	.9020+05	-.5258+02	-.2547+02	-.9028+05

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE
AND RATE OF DISSOCIATION - Continued

(c) Wavelength interval from 1768.6 to 1774.6 Å

COLUMN DENSITY	A	R	C	D	E	F
.1000+18	-.1432-01	-.2408-04	.6066-07	-.4346+02	.1758-02	-.4672-05
.2000+18	-.2759-01	-.5050-04	.1248-06	-.4354+02	.2001-02	-.5236-05
.3000+18	-.3901-01	-.7844-04	.1904-06	-.4363+02	.2207-02	-.5693-05
.4000+18	-.5144-01	-.1073-03	.2561-06	-.4370+02	.2379-02	-.6057-05
.5000+18	-.6227-01	-.1366-03	.3204-06	-.4377+02	.2520-02	-.6340-05
.6000+18	-.7249-01	-.1660-03	.3841-06	-.4384+02	.2634-02	-.6552-05
.7000+18	-.8217-01	-.1953-03	.4454-06	-.4390+02	.2725-02	-.6706-05
.8000+18	-.9138-01	-.2243-03	.5045-06	-.4396+02	.2795-02	-.6811-05
.9000+18	-.1002+00	-.2529-03	.5614-06	-.4401+02	.2849-02	-.6877-05
.1000+19	-.1086+00	-.2809-03	.6160-06	-.4406+02	.2887-02	-.6913-05
.2000+19	-.1789+00	-.5295-03	.1066-05	-.4442+02	.2865-02	-.6645-05
.3000+19	-.2351+00	-.7327-03	.1426-05	-.4465+02	.2659-02	-.6432-05
.4000+19	-.2839+00	-.9091-03	.1757-05	-.4481+02	.2460-02	-.6370-05
.5000+19	-.3292+00	-.1068-02	.2077-05	-.4494+02	.2273-02	-.6302-05
.6000+19	-.3603+00	-.1214-02	.2391-05	-.4505+02	.2091-02	-.6174-05
.7000+19	-.4080+00	-.1351-02	.2697-05	-.4514+02	.1912-02	-.5983-05
.8000+19	-.4449+00	-.1478-02	.2996-05	-.4522+02	.1736-02	-.5742-05
.9000+19	-.4801+00	-.1599-02	.3287-05	-.4530+02	.1565-02	-.5464-05
.1000+20	-.5141+00	-.1713-02	.3569-05	-.4537+02	.1399-02	-.5159-05
.2000+20	-.A078+00	-.2613-02	.5937-05	-.4589+02	.1767-04	-.1757-05
.3000+20	-.1054+01	-.3247-02	.7634-05	-.4627+02	-.1001+02	.1253-05
.4000+20	-.1274+01	-.3729-02	.9864-05	-.4659+02	-.1792-02	.1658-05
.5000+20	-.1477+01	-.4111-02	.9786-05	-.4686+02	-.2421-02	.1542-05
.6000+20	-.1667+01	-.4425-02	.1048-04	-.4711+02	-.2928-02	.7007-05
.7000+20	-.1849+01	-.4689-02	.1101-04	-.4733+02	-.3343-02	.A147-05
.8000+20	-.2022+01	-.4919-02	.1143-04	-.4754+02	-.3687-02	.9035-05
.9000+20	-.2190+01	-.5123-02	.1176-04	-.4774+02	-.3979-02	.9733-05
.1000+21	-.2353+01	-.5308-02	.1203-04	-.4793+02	-.4231-02	.1029-04
.2000+21	-.3831+01	-.6716-02	.1340-04	-.4956+02	-.5847-02	.1249-04
.3000+21	-.5175+01	-.7896-02	.1443-04	-.5096+02	-.7034-02	.1337-04
.4000+21	-.6456+01	-.9028-02	.1571-04	-.5228+02	-.8162-02	.1445-04
.5000+21	-.7700+01	-.1013-01	.1714-04	-.5355+02	-.9269-02	.1581-04
.6000+21	-.8919+01	-.1119-01	.1874-04	-.5478+02	-.1035-01	.1735-04

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE
AND RATE OF DISSOCIATION - Continued

(d) Wavelength interval from 1774.6 to 1782.6 Å

COLUMN DENSITY	A	B	C	D	E	F
.1000+18	-.9702-02	-.1929-04	.2026-07	-.4395+02	.2493-02	-.4155-05
.2000+18	-.1762-01	-.4270-04	.4668-07	-.4414+02	.3231-02	-.5734-05
.3000+18	-.2429-01	-.6715-04	.7145-07	-.4430+02	.3739-02	-.6636-05
.4000+18	-.3007-01	-.9110-04	.9163-07	-.4444+02	.4071-02	-.7053-05
.5000+18	-.3520-01	-.1139-03	.1067-06	-.4455+02	.4275-02	-.7156-05
.6000+18	-.3943-01	-.1354-03	.1172-06	-.4465+02	.4392-02	-.7080-05
.7000+18	-.4408-01	-.1556-03	.1239-06	-.4473+02	.4452-02	-.6919-05
.8000+18	-.4802-01	-.1745-03	.1276-06	-.4480+02	.4478-02	-.6734-05
.9000+18	-.5173-01	-.1924-03	.1291-06	-.4486+02	.4483-02	-.6557-05
.1000+19	-.5524-01	-.2093-03	.1291-06	-.4492+02	.4476-02	-.6407-05
.2000+19	-.8398-01	-.3677-03	.1071-06	-.4525+02	.4338-02	-.6126-05
.3000+19	-.1069+00	-.4579-03	.9345-07	-.4543+02	.4191-02	-.6279-05
.4000+19	-.1270+00	-.5536-03	.9025-07	-.4556+02	.4031-02	-.6309-05
.5000+19	-.1453+00	-.6396-03	.9327-07	-.4566+02	.3877-02	-.6280-05
.6000+19	-.1622+00	-.7184-03	.1003-06	-.4574+02	.3734-02	-.6239-05
.7000+19	-.1782+00	-.7916-03	.1104-06	-.4581+02	.3604-02	-.6201-05
.8000+19	-.1934+00	-.8605-03	.1229-06	-.4588+02	.3484-02	-.6169-05
.9000+19	-.2079+00	-.9257-03	.1375-06	-.4593+02	.3373-02	-.6142-05
.1000+20	-.2219+00	-.9878-03	.1539-06	-.4598+02	.3270-02	-.6119-05
.2000+20	-.3424+00	-.1505-02	.1805-06	-.4633+02	.2461-02	-.5911-05
.3000+20	-.4439+00	-.1916-02	.6554-06	-.4656+02	.1854-02	-.5563-05
.4000+20	-.5351+00	-.2271-02	.9377-06	-.4674+02	.1354-02	-.5178-05
.5000+20	-.6196+00	-.2588-02	.1220-05	-.4689+02	.9266-03	-.4829-05
.6000+20	-.6992+00	-.2879-02	.1502-05	-.4702+02	.5480-03	-.4519-05
.7000+20	-.7750+00	-.3150-02	.1786-05	-.4714+02	.2040-03	-.4235-05
.8000+20	-.8477+00	-.3406-02	.2072-05	-.4725+02	.1146-03	-.3967-05
.9000+20	-.9180+00	-.3649-02	.2362-05	-.4735+02	.4136-03	-.3707-05
.1000+21	-.9861+00	-.3880-02	.2656-05	-.4745+02	.6970-03	-.3450-05
.2000+21	-.1593+01	-.5793-02	.5769-05	-.4823+02	.3038-02	-.6700-06
.3000+21	-.2125+01	-.7240-02	.8906-05	-.4886+02	.4872-02	.2720-05
.4000+21	-.2616+01	-.8379-02	.1168-04	-.4941+02	.6353-02	.6226-05
.5000+21	-.3083+01	-.9302-02	.1396-04	-.4992+02	.7550-02	.9374-05
.6000+21	-.3532+01	-.1007-01	.1577-04	-.5040+02	.8527-02	.1200-04
.7000+21	-.3970+01	-.1074-01	.1718-04	-.5086+02	.9345-02	.1410-04
.8000+21	-.4394+01	-.1133-01	.1828-04	-.5131+02	.1005-01	.1577-04
.9000+21	-.4819+01	-.1187-01	.1913-04	-.5175+02	.1067-01	.1709-04
.1000+22	-.5235+01	-.1236-01	.1979-04	-.5217+02	.1123-01	.1812-04

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE

AND RATE OF DISSOCIATION. Continued

(e) Wavelength interval from 1782.6 to 1792.6 Å

COLUMN DENSITY	A	B	C	D	E	F
.1000+18	-.8189-02	-.9714-05	.3125-08	-.4410+02	.1556-02	-.1789-05
.2000+18	-.1497-01	-.2291-04	.1421-07	-.4428+02	.2148-02	-.3093-05
.3000+18	-.2072-01	-.3725-04	.2684-07	-.4443+02	.2546-02	-.3813-05
.4000+18	-.2573-01	-.5152-04	.3816-07	-.4457+02	.2791-02	-.4103-05
.5000+18	-.3017-01	-.6512-04	.4706-07	-.4468+02	.2922-02	-.4697-05
.6000+18	-.3417-01	-.7779-04	.5341-07	-.4478+02	.2974-02	-.5008-05
.7000+18	-.3783-01	-.8950-04	.5743-07	-.4487+02	.2972-02	-.5618-05
.8000+18	-.4121-01	-.1003-03	.5952-07	-.4495+02	.2935-02	-.5283-05
.9000+18	-.4437-01	-.1102-03	.6005-07	-.4501+02	.2879-02	-.5294-05
.1000+19	-.4735-01	-.1193-03	.5934-07	-.4507+02	.2813-02	-.5612-05
.2000+19	-.7103-01	-.1840-03	.2445-07	-.4546+02	.2262-02	-.6356-06
.3000+19	-.8907-01	-.2266-03	.2376-07	-.4568+02	.2051-02	-.1454-06
.4000+19	-.1043+00	-.2607-03	.7491-07	-.4584+02	.1979-02	-.5194-06
.5000+19	-.1177+00	-.2906-03	.1266-06	-.4596+02	.1955-02	-.6451-06
.6000+19	-.1300+00	-.3178-03	.1772-06	-.4605+02	.1946-02	-.7743-06
.7000+19	-.1413+00	-.3432-03	.2264-06	-.4613+02	.1939-02	-.8074-06
.8000+19	-.1518+00	-.3670-01	.2751-06	-.4620+02	.1930-02	-.8179-06
.9000+19	-.1619+00	-.3897-03	.3221-06	-.4627+02	.1918-02	-.8167-06
.1000+20	-.1714+00	-.4114-03	.3679-06	-.4632+02	.1905-02	-.8086-06
.2000+20	-.2512+00	-.5929-03	.7743-06	-.4668+02	.1720-02	-.6229-06
.3000+20	-.3161+00	-.7380-03	.1115-05	-.4689+02	.1535-02	-.3148-06
.4000+20	-.3736+00	-.8662-03	.1406-05	-.4705+02	.1368-02	-.7958-07
.5000+20	-.4264+00	-.9817-03	.1653-05	-.4717+02	.1213-02	-.5095-06
.6000+20	-.4760+00	-.1089-02	.1864-05	-.4727+02	.1068-02	-.9258-06
.7000+20	-.5233+00	-.1189-02	.2043-05	-.4736+02	.9298-03	-.1305-05
.8000+20	-.5687+00	-.1285-02	.2197-05	-.4744+02	.7969-03	-.1637-05
.9000+20	-.6126+00	-.1376-02	.2330-05	-.4752+02	.6688-03	-.1923-05
.1000+21	-.6553+00	-.1463-02	.2447-05	-.4759+02	.5451-03	-.2166-05
.2000+21	-.1042+01	-.2187-02	.3152-05	-.4812+02	.4896-03	-.3224-05
.3000+21	-.1388+01	-.2747-02	.3609-05	-.4854+02	.1259-02	-.3496-05
.4000+21	-.1715+01	-.3215-02	.4057-05	-.4892+02	.1877-02	-.3683-05
.5000+21	-.2027+01	-.3620-02	.4509-05	-.4927+02	.2400-02	-.3496-05
.6000+21	-.2330+01	-.3979-02	.5006-05	-.4960+02	.2855-02	-.4166-05
.7000+21	-.2626+01	-.4302-02	.5537-05	-.4991+02	.3258-02	-.4500-05
.8000+21	-.2915+01	-.4597-02	.6099-05	-.5022+02	.3620-02	-.4894-05
.9000+21	-.3200+01	-.4869-02	.6684-05	-.5052+02	.3948-02	-.5341-05
.1000+22	-.3481+01	-.5122-02	.7284-05	-.5081+02	.4249-02	-.5831-05
.2000+22	-.6151+01	-.7053-02	.1364-04	-.5356+02	.6438-02	-.1174-04
.3000+22	-.8689+01	-.8459-02	.1979-04	-.5613+02	.7949-02	-.1786-04

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE
AND RATE OF DISSOCIATION - Continued

(f) Wavelength interval from 1792.6 to 1803.6 Å

COLUMN DENSITY	A	B	C	D	E	F
.1000+18	-.5844+02	-.4093-05	-.4076-08	-.4433+02	.7864-03	-.2112-07
.2000+18	-.1136+01	-.9143-05	-.4796-08	-.4439+02	.9834-03	-.6264-06
.3000+18	-.1658+01	-.1498-04	-.2754-08	-.4445+02	.1165-02	-.1181-05
.4000+18	-.2152+01	-.2144-04	.1536-08	-.4451+02	.1332-02	-.1687-05
.5000+18	-.2621+01	-.2839-04	.7612-08	-.4456+02	.1485-02	-.2146-05
.6000+18	-.3068+01	-.3574-04	.1513-07	-.4462+02	.1624-02	-.2562-05
.7000+18	-.3494+01	-.4334-04	.2377-07	-.4467+02	.1750-02	-.2937-05
.8000+18	-.3900+01	-.5123-04	.3329-07	-.4472+02	.1865-02	-.3273-05
.9000+18	-.4290+01	-.5923-04	.4350-07	-.4476+02	.1967-02	-.3673-05
.1000+19	-.4663+01	-.6732-04	.5414-07	-.4481+02	.2059-02	-.3839-05
.2000+19	-.7732+01	-.1463-03	.1657-06	-.4518+02	.2530-02	-.5154-05
.3000+19	-.1005+00	-.2134-03	.2614-06	-.4543+02	.2539-02	-.5194-05
.4000+19	-.1196+00	-.2643-03	.3387-06	-.4561+02	.2394-02	-.4933-05
.5000+19	-.1362+00	-.3138-03	.4033-06	-.4575+02	.2221-02	-.4581-05
.6000+19	-.1511+00	-.3526-03	.4600-06	-.4586+02	.2063-02	-.4339-05
.7000+19	-.1647+00	-.3865-03	.5114-06	-.4596+02	.1932-02	-.4167-05
.8000+19	-.1773+00	-.4166-03	.5593-06	-.4604+02	.1825-02	-.4050-05
.9000+19	-.1892+00	-.4446-03	.6047-06	-.4611+02	.1738-02	-.3069-05
.1000+20	-.2004+00	-.4700-02	.6481-06	-.4617+02	.1668-02	-.3011-05
.2000+20	-.2907+00	-.6662-03	.1015-05	-.4661+02	.1361-02	-.3844-05
.3000+20	-.3602+00	-.8167-03	.1301-05	-.4688+02	.1265-02	-.3301-05
.4000+20	-.4180+00	-.9480-03	.1539-05	-.4708+02	.1212-02	-.3765-05
.5000+20	-.4708+00	-.1068-02	.1745-05	-.4724+02	.1168-02	-.2998-05
.6000+20	-.5179+00	-.1181-02	.1929-05	-.4737+02	.1123-02	-.2745-05
.7000+20	-.5614+00	-.1288-02	.2097-05	-.4748+02	.1073-02	-.2603-05
.8000+20	-.6022+00	-.1391-02	.2252-05	-.4759+02	.1017-02	-.2469-05
.9000+20	-.6407+00	-.1489-02	.2396-05	-.4768+02	.9577-03	-.2340-05
.1000+21	-.6773+00	-.1584-02	.2532-05	-.4776+02	.8947-03	-.2218-05
.2000+21	-.9848+00	-.2416-02	.3648-05	-.4834+02	.2197-03	-.1268-05
.3000+21	-.1238+01	-.3127-02	.4571-05	-.4873+02	.4423-03	-.4113-06
.4000+21	-.1466+01	-.3770-02	.5382-05	-.4904+02	.1079-02	-.4807-06
.5000+21	-.1677+01	-.4366-02	.6101-05	-.4932+02	.1689-02	-.3449-05
.6000+21	-.1877+01	-.4925-02	.6743-05	-.4956+02	.2272-02	-.2159-05
.7000+21	-.2068+01	-.5455-02	.7322-05	-.4979+02	.2828-02	-.2900-05
.8000+21	-.2252+01	-.5961-02	.7849-05	-.5001+02	.3361-02	-.3579-05
.9000+21	-.2432+01	-.6447-02	.9334-05	-.5022+02	.3873-02	-.4201-05
.1000+22	-.2607+01	-.6916-02	.9782-05	-.5041+02	.4367-02	-.4776-05
.2000+22	-.4216+01	-.1103-01	.1200-04	-.5215+02	.8664-02	-.8668-05
.3000+22	-.5700+01	-.1457-01	.1397-04	-.5368+02	.1232-01	-.1132-04
.4000+22	-.7125+01	-.1784-01	.1536-04	-.5514+02	.1566-01	-.1300-04
.5000+22	-.8515+01	-.2093-01	.1640-04	-.5655+02	.1880-01	-.1424-04

**TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE**

AND RATE OF DISSOCIATION - Continued

(g) Wavelength interval from 1803.6 to 1816.4 Å

COLUMN	A	B	C	D	E	F
DENSITY						
.1000+18	-.4251-02	.4816-06	-.1104-07	-.4462+02	-.5619-04	.2334-05
.2000+18	-.8421-02	.5701-06	-.2087-07	-.4464+02	.3557-04	.2068-05
.3000+18	-.1251-01	.2893-06	-.2959-07	-.4467+02	.1250-03	.1811-05
.4000+18	-.1653-01	.3427-06	-.3726-07	-.4469+02	.2121-03	.1560-05
.5000+18	-.2084-01	.1304-05	-.4395-07	-.4471+02	.2970-03	.1118-05
.6000+18	-.2435-01	-.2575-05	-.4974-07	-.4473+02	.3796-03	.1083-05
.7000+18	-.2815-01	-.4145-05	-.5463-07	-.4476+02	.4600-03	.0856-06
.8000+18	-.3189-01	-.5992-05	-.5873-07	-.4478+02	.5383-03	.6358-06
.9000+18	-.3556-01	-.8099-05	-.6208-07	-.4480+02	.6144-03	.4228-06
.1000+19	-.3917-01	-.1046-04	-.6471-07	-.4482+02	.6684-03	.2167-06
.2000+19	-.7216-01	-.4475-04	-.6159-07	-.4501+02	.1323-02	.1496-05
.3000+19	-.1005+00	-.9164-04	-.2637-07	-.4518+02	.1792-02	.2679-05
.4000+19	-.1252+00	-.1444-03	-.2137-07	-.4534+02	.2131-02	.3469-05
.5000+19	-.1472+00	-.1993-03	-.7155-07	-.4547+02	.2371-02	.3881-05
.6000+19	-.1660+00	-.2541-03	-.1195-06	-.4559+02	.2540-02	.4103-05
.7000+19	-.1849+00	-.3078-03	-.1631-06	-.4570+02	.2657-02	.4501-05
.8000+19	-.2014+00	-.3597-03	-.2021-06	-.4579+02	.2737-02	.4622-05
.9000+19	-.2167+00	-.4097-03	-.2366-06	-.4588+02	.2792-02	.4696-05
.1000+20	-.2310+00	-.4578-03	-.2670-06	-.4596+02	.2828-02	.4742-05
.2000+20	-.3399+00	-.8567-03	-.4418-06	-.4651+02	.2863-02	.4864-05
.3000+20	-.4177+00	-.1165-02	-.5026-06	-.4684+02	.2752-02	.4811-05
.4000+20	-.4804+00	-.1425-02	-.5055-06	-.4708+02	.2613-02	.4708-05
.5000+20	-.5351+00	-.1654-02	-.4711-06	-.4726+02	.2468-02	.4603-05
.6000+20	-.5834+00	-.1860-02	-.4098-06	-.4742+02	.2325-02	.4509-05
.7000+20	-.6272+00	-.2050-02	-.3282-06	-.4755+02	.2185-02	.4430-05
.8000+20	-.6677+00	-.2226-02	-.2308-06	-.4766+02	.2048-02	.4370-05
.9000+20	-.7054+00	-.2391-02	-.2124-06	-.4777+02	.1915-02	.4320-05
.1000+21	-.7408+00	-.2547-02	-.2925-08	-.4786+02	.1784-02	.4317-05
.2000+21	-.1023+01	-.3801-02	-.1303-05	-.4851+02	.6417-03	.5115-05
.3000+21	-.1219+01	-.4778-02	-.2397-05	-.4891+02	.3039-03	.6467-05
.4000+21	-.1425+01	-.5621-02	-.3235-05	-.4922+02	.1177-02	.7472-05
.5000+21	-.1594+01	-.6376-02	-.3031-05	-.4947+02	.2012-02	.8052-05
.6000+21	-.1751+01	-.7061-02	-.4575-05	-.4969+02	.2810-02	.8350-05
.7000+21	-.1894+01	-.7687-02	-.5222-05	-.4989+02	.3566-02	.8509-05
.8000+21	-.2040+01	-.8264-02	-.5898-05	-.5007+02	.4277-02	.8629-05
.9000+21	-.2176+01	-.8798-02	-.6615-05	-.5024+02	.4944-02	.8775-05
.1000+22	-.2307+01	-.9295-02	-.7373-05	-.5040+02	.5566-02	.8881-05
.2000+22	-.2473+01	-.1305-01	-.1592-04	-.5176+02	.1009-01	.1466-04
.3000+22	-.4504+01	-.1547-01	-.2337-04	-.5288+02	.1315-01	.2207-04
.4000+22	-.5457+01	-.1837-01	-.2916-04	-.5389+02	.1573-01	.2427-04
.5000+22	-.6365+01	-.2073-01	-.3391-04	-.5443+02	.1811-01	.3337-04
.6000+22	-.7243+01	-.2303-01	-.3811-04	-.5574+02	.2038-01	.3781-04
.7000+22	-.8101+01	-.2530-01	-.4197-04	-.5662+02	.2262-01	.4188-04
.8000+22	-.8944+01	-.2757-01	-.4564-04	-.5748+02	.2484-01	.4572-04

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE
AND RATE OF DISSOCIATION - Continued

(h) Wavelength interval from 1816.4 to 1830.6 Å

COLUMN DENSITY	A	B	C	D	E	F
1000+18	-.6046-02	.8685-05	-.2620-07	-.4430+02	-.1331-02	.3063-05
2000+18	-.1166-01	.1527-04	-.4696-07	-.4438+02	-.1057-02	.3375-05
3000+18	-.1688-01	.2011-04	-.6336-07	-.4446+02	-.8014-03	.2935-05
4000+18	-.2174-01	.2349-04	-.7617-07	-.4453+02	-.5635-03	.2343-05
5000+18	-.2630-01	.2565-04	-.8610-07	-.4460+02	-.3434-03	.1898-05
6000+18	-.3057-01	.2679-04	-.9372-07	-.4467+02	-.1404-03	.1498-05
7000+18	-.3459-01	.2710-04	-.9952-07	-.4473+02	-.4611-04	.1142-05
8000+18	-.3838-01	.2672-04	-.1039-06	-.4480+02	-.2167-03	.8269-06
9000+18	-.4195-01	.2578-04	-.1071-06	-.4485+02	-.3722-03	.5514-06
1000+19	-.4534-01	.2438-04	-.1095-06	-.4491+02	-.5132-03	.3128-06
2000+19	-.7195-01	-.4013-06	-.1177-06	-.4535+02	-.1315-02	-.5057-06
3000+19	-.9089-01	-.2813-04	-.1318-06	-.4564+02	-.1503-02	-.2423-06
4000+19	-.1060+00	-.5127-04	-.1565-06	-.4584+02	-.1503-02	.2844-06
5000+19	-.1189+00	-.7040-04	-.1870-06	-.4599+02	-.1470-02	.7073-06
6000+19	-.1303+00	-.8781-04	-.2203-06	-.4611+02	-.1444-02	.1014-05
7000+19	-.1406+00	-.1031-03	-.2550-06	-.4621+02	-.1431-02	.1237-05
8000+19	-.1501+00	-.1171-03	-.2902-06	-.4630+02	-.1429-02	.1401-05
9000+19	-.1590+00	-.1303-03	-.3258-06	-.4638+02	-.1435-02	.1523-05
1000+20	-.1673+00	-.1427-03	-.3615-06	-.4644+02	-.1447-02	.1614-05
2000+20	-.2322+00	-.2447-03	-.7066-06	-.4691+02	-.1649-02	.1751-05
3000+20	-.2799+00	-.3389-03	-.1026-05	-.4719+02	-.1809-02	.1543-05
4000+20	-.3190+00	-.4201-03	-.1325-05	-.4740+02	-.1911-02	.1330-05
5000+20	-.3526+00	-.4946-03	-.1610-05	-.4757+02	-.1983-02	.1121-05
6000+20	-.3823+00	-.5640-03	-.1884-05	-.4771+02	-.2037-02	.9027-06
7000+20	-.4091+00	-.6293-03	-.2148-05	-.4783+02	-.2082-02	.6719-06
8000+20	-.4337+00	-.6914-03	-.2402-05	-.4794+02	-.2118-02	.4273-06
9000+20	-.4564+00	-.7509-03	-.2648-05	-.4803+02	-.2148-02	.1706-06
1000+21	-.4777+00	-.8080-03	-.2886-05	-.4812+02	-.2172-02	-.9599-07
2000+21	-.6419+00	-.1299-02	-.4875-05	-.4869+02	-.2131-02	-.2710-05
3000+21	-.7637+00	-.1695-02	-.6360-05	-.4902+02	-.1795-02	-.4529-05
4000+21	-.8667+00	-.2031-02	-.7565-05	-.4926+02	-.1375-02	-.5698-05
5000+21	-.9588+00	-.2322-02	-.8608-05	-.4944+02	-.9527-03	-.6521-05
6000+21	-.1044+01	-.2579-02	-.9552-05	-.4960+02	-.5564-03	-.7176-05
7000+21	-.1124+01	-.2810-02	-.1043-04	-.4973+02	-.1932-03	-.7758-05
8000+21	-.1200+01	-.3020-02	-.1126-04	-.4985+02	-.1369-03	-.8313-05
9000+21	-.1273+01	-.3213-02	-.1204-04	-.4996+02	-.4368-03	-.8863-05
1000+22	-.1343+01	-.3393-02	-.1280-04	-.5007+02	-.7102-03	-.9417-05
2000+22	-.1970+01	-.4775-02	-.1931-04	-.5087+02	-.2633-02	-.1494-04
3000+22	-.2523+01	-.5782-02	-.2480-04	-.5151+02	-.3935-02	-.2000-04
4000+22	-.3039+01	-.6507-02	-.2976-04	-.5208+02	-.4955-02	-.2475-04
5000+22	-.3533+01	-.7297-02	-.3429-04	-.5261+02	-.5798-02	-.2927-04
6000+22	-.4010+01	-.7921-02	-.3840-04	-.5312+02	-.6529-02	-.3353-04
7000+22	-.4475+01	-.8492-02	-.4214-04	-.5361+02	-.7187-02	-.3747-04
8000+22	-.4931+01	-.9021-02	-.4554-04	-.5408+02	-.7793-02	-.4107-04
9000+22	-.5379+01	-.9513-02	-.4864-04	-.5454+02	-.8359-02	-.4435-04
1000+23	-.5822+01	-.9970-02	-.5161-04	-.5500+02	-.8890-02	-.4736-04

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE
AND RATE OF DISSOCIATION - Continued

(i) Wavelength interval from 1830.6 to 1846.2 Å

COLUMN DENSITY	A	B	C	D	E	F
1.000+18	-.1940+02	-.7989+07	-.4268+08	-.4541+02	.8998+04	.1657+05
2.000+18	-.3837+02	-.2999+06	-.8233+08	-.4543+02	.1643+03	.1418+05
3.000+18	-.5690+02	-.6477+06	-.1193+07	-.4546+02	.2366+03	.1684+05
4.000+18	-.7503+02	-.1118+05	-.1536+07	-.4548+02	.3071+03	.1556+05
5.000+18	-.9276+02	-.1700+05	-.1854+07	-.4550+02	.3756+03	.1433+05
6.000+18	-.1101+01	-.2385+05	-.2159+07	-.4553+02	.4423+03	.1314+05
7.000+18	-.1271+01	-.3170+05	-.2439+07	-.4555+02	.5071+03	.1200+05
8.000+18	-.1437+01	-.4046+05	-.2701+07	-.4557+02	.5700+03	.1092+05
9.000+18	-.1600+01	-.5005+05	-.2949+07	-.4559+02	.6312+03	.9873+06
1.000+19	-.1760+01	-.6042+05	-.3182+07	-.4562+02	.6906+03	.8875+06
2.000+19	-.3195+01	-.1959+04	-.4983+07	-.4582+02	.1194+02	.1200+06
3.000+19	-.4400+01	-.3637+04	-.6382+07	-.4599+02	.1556+02	.3067+06
4.000+19	-.5437+01	-.5416+04	-.7805+07	-.4614+02	.1810+02	.4458+06
5.000+19	-.6348+01	-.7187+04	-.9404+07	-.4627+02	.1985+02	.5345+06
6.000+19	-.7163+01	-.8899+04	-.1120+06	-.4638+02	.2105+02	.4893+06
7.000+19	-.7902+01	-.1053+03	-.1319+06	-.4648+02	.2187+02	.4043+06
8.000+19	-.8581+01	-.1209+03	-.1531+06	-.4657+02	.2246+02	.3074+06
9.000+19	-.9211+01	-.1357+03	-.1754+06	-.4664+02	.2288+02	.2135+06
1.000+20	-.9800+01	-.1498+03	-.1983+06	-.4671+02	.2320+02	.1300+06
2.000+20	-.1436+00	-.2649+03	-.4326+06	-.4717+02	.2460+02	.1741+06
3.000+20	-.1771+00	-.3544+03	-.6499+06	-.4744+02	.2497+02	.1364+06
4.000+20	-.2046+00	-.4302+03	-.8482+06	-.4763+02	.2503+02	.1745+07
5.000+20	-.2284+00	-.4973+03	-.1031+05	-.4778+02	.2497+02	.1267+06
6.000+20	-.2496+00	-.5581+03	-.1202+05	-.4790+02	.2487+02	.2717+06
7.000+20	-.2690+00	-.6143+03	-.1363+05	-.4801+02	.2475+02	.4100+06
8.000+20	-.2868+00	-.6666+03	-.1516+05	-.4810+02	.2460+02	.5420+06
9.000+20	-.3034+00	-.7159+03	-.1662+05	-.4819+02	.2443+02	.6703+06
1.000+21	-.3190+00	-.7625+03	-.1803+05	-.4826+02	.2426+02	.7080+06
2.000+21	-.4414+00	-.1144+02	-.2954+05	-.4878+02	.2254+02	.2245+05
3.000+21	-.5322+00	-.1446+02	-.3775+05	-.4909+02	.2088+02	.3779+05
4.000+21	-.6073+00	-.1710+02	-.4362+05	-.4932+02	.1915+02	.5145+05
5.000+21	-.6730+00	-.1950+02	-.4782+05	-.4951+02	.1742+02	.6325+05
6.000+21	-.7321+00	-.2173+02	-.5082+05	-.4966+02	.1572+02	.7335+05
7.000+21	-.7866+00	-.2384+02	-.5292+05	-.4979+02	.1403+02	.8183+05
8.000+21	-.8374+00	-.2584+02	-.5433+05	-.4990+02	.1234+02	.8880+05
9.000+21	-.8854+00	-.2776+02	-.5523+05	-.5000+02	.1065+02	.9438+05
1.000+22	-.9311+00	-.2960+02	-.5574+05	-.5009+02	.8932+03	.9873+05
2.000+22	-.1316+01	-.4503+02	-.5132+05	-.5074+02	.8432+03	.1038+04
3.000+22	-.1630+01	-.5670+02	-.5071+05	-.5118+02	.2392+02	.8897+05
4.000+22	-.1932+01	-.6603+02	-.5113+05	-.5155+02	.3673+02	.7039+05
5.000+22	-.2207+01	-.7381+02	-.5329+05	-.5188+02	.4733+02	.7370+05
6.000+22	-.2470+01	-.8052+02	-.5621+05	-.5218+02	.5629+02	.7143+05
7.000+22	-.2724+01	-.8646+02	-.5932+05	-.5247+02	.6402+02	.7113+05
8.000+22	-.2970+01	-.9183+02	-.6237+05	-.5274+02	.7083+02	.7182+05
9.000+22	-.3210+01	-.9675+02	-.6530+05	-.5300+02	.7694+02	.7292+05
1.000+23	-.3446+01	-.1013+01	-.6814+05	-.5326+02	.8250+02	.7414+05
2.000+23	-.5638+01	-.1355+01	-.1084+04	-.5555+02	.1221+01	.9537+05
3.000+23	-.7604+01	-.1595+01	-.1447+04	-.5765+02	.1482+01	.1567+04

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE
AND RATE OF DISSOCIATION - Continued

(j) Wavelength interval from 1846.2 to 1863.4 Å

COLUMN DENSITY	A	B	C	D	E	F
.1000+18	-.8170+03	-.2968+06	-.2962+08	-.4626+02	.4086+03	.2996+05
.2000+18	-.1628+02	-.6104+06	-.5882+08	-.4627+02	.4358+03	.2935+05
.3000+18	-.2433+02	-.9474+06	-.8735+08	-.4628+02	.4627+03	.2875+05
.4000+18	-.3233+02	-.1305+05	-.1152+07	-.4628+02	.4894+03	.2816+05
.5000+18	-.4027+02	-.1674+05	-.1431+07	-.4629+02	.5160+03	.2757+05
.6000+18	-.4816+02	-.2067+05	-.1702+07	-.4630+02	.5423+03	.2699+05
.7000+18	-.5599+02	-.2478+05	-.1967+07	-.4631+02	.5684+03	.2642+05
.8000+18	-.6377+02	-.2905+05	-.2230+07	-.4631+02	.5942+03	.2585+05
.9000+18	-.7149+02	-.3348+05	-.2488+07	-.4632+02	.6199+03	.2528+05
.1000+19	-.7916+02	-.3808+05	-.2742+07	-.4633+02	.6454+03	.2473+05
.2000+19	-.1531+01	-.9256+05	-.5070+07	-.4640+02	.8889+03	.1048+05
.3000+19	-.2223+01	-.1601+04	-.7079+07	-.4648+02	.1113+02	.1479+05
.4000+19	-.2872+01	-.2379+04	-.8845+07	-.4654+02	.1318+02	.1064+05
.5000+19	-.3484+01	-.3236+04	-.1043+06	-.4661+02	.1505+02	.6977+06
.6000+19	-.4041+01	-.4155+04	-.1188+06	-.4667+02	.1675+02	.3770+06
.7000+19	-.4606+01	-.5117+04	-.1324+06	-.4673+02	.1830+02	.9813+07
.8000+19	-.5124+01	-.6113+04	-.1454+06	-.4679+02	.1971+02	.1429+06
.9000+19	-.5616+01	-.7130+04	-.1580+06	-.4684+02	.2098+02	.3495+06
.1000+20	-.6084+01	-.8160+04	-.1703+06	-.4690+02	.2213+02	.5256+06
.2000+20	-.9844+01	-.1823+03	-.2991+06	-.4731+02	.2887+02	.1240+05
.3000+20	-.1260+00	-.2698+03	-.4444+06	-.4759+02	.3135+02	.1253+05
.4000+20	-.1482+00	-.3452+03	-.5978+06	-.4780+02	.3247+02	.1173+05
.5000+20	-.1671+00	-.4116+03	-.7544+06	-.4795+02	.3306+02	.1060+05
.6000+20	-.1837+00	-.4713+03	-.9134+06	-.4808+02	.3333+02	.9089+06
.7000+20	-.1988+00	-.5257+03	-.1075+05	-.4819+02	.3340+02	.7280+06
.8000+20	-.2126+00	-.5758+03	-.1239+05	-.4829+02	.3333+02	.5330+06
.9000+20	-.2254+00	-.6222+03	-.1405+05	-.4837+02	.3319+02	.3370+06
.1000+21	-.2373+00	-.6655+03	-.1573+05	-.4845+02	.3299+02	.1487+06
.2000+21	-.3306+00	-.9932+03	-.1304+05	-.4894+02	.3049+02	.9811+06
.3000+21	-.3995+00	-.1220+02	-.5035+05	-.4924+02	.2837+02	.1073+05
.4000+21	-.4565+00	-.1398+02	-.6712+05	-.4945+02	.2677+02	.5415+06
.5000+21	-.5063+00	-.1550+02	-.8316+05	-.4962+02	.2554+02	.3774+06
.6000+21	-.5511+00	-.1685+02	-.9840+05	-.4976+02	.2455+02	.1542+05
.7000+21	-.5923+00	-.1809+02	-.1128+04	-.4988+02	.2372+02	.2859+05
.8000+21	-.6306+00	-.1927+02	-.1265+04	-.4998+02	.2299+02	.4266+05
.9000+21	-.6668+00	-.2040+02	-.1393+04	-.5007+02	.2232+02	.5718+05
.1000+22	-.7012+00	-.2150+02	-.1514+04	-.5015+02	.2167+02	.7182+05
.2000+22	-.9888+00	-.3204+02	-.2407+04	-.5071+02	.1411+02	.1972+04
.3000+22	-.1226+01	-.4213+02	-.2942+04	-.5108+02	.3973+03	.2740+04
.4000+22	-.1440+01	-.5147+02	-.3304+04	-.5137+02	.7096+03	.3209+04
.5000+22	-.1640+01	-.5992+02	-.3584+04	-.5163+02	.1794+02	.3525+04
.6000+22	-.1830+01	-.6754+02	-.3805+04	-.5187+02	.2812+02	.3758+04
.7000+22	-.2012+01	-.7440+02	-.3991+04	-.5208+02	.3752+02	.3040+04
.8000+22	-.2190+01	-.8062+02	-.4151+04	-.5229+02	.4616+02	.4087+04
.9000+22	-.2362+01	-.8624+02	-.4295+04	-.5248+02	.5408+02	.4210+04
.1000+23	-.2531+01	-.9136+02	-.4428+04	-.5267+02	.6133+02	.4114+04
.2000+23	-.4102+01	-.1240+01	-.5737+04	-.5435+02	.1077+01	.5205+04
.3000+23	-.5565+01	-.1396+01	-.7457+04	-.5586+02	.1289+01	.6609+04
.4000+23	-.6979+01	-.1484+01	-.9513+04	-.5730+02	.1403+01	.8473+04
.5000+23	-.8363+01	-.1537+01	-.1178+03	-.5870+02	.1471+01	.1062+03

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE

AND RATE OF DISSOCIATION - Continued

(k) Wavelength interval from 1863.4 to 1882.2 Å

COLUMN DENSITY	A	B	C	D	E	F
.1000+18	-.4875-03	-.2940-06	-.9008-09	-.4678+02	.6453-03	-.1337-05
.2000+18	-.9644-03	-.6031-06	-.1782-08	-.4679+02	.6624-03	-.1301-05
.3000+18	-.1443-02	-.9157-06	-.2645-08	-.4679+02	.6794-03	-.1265-05
.4000+18	-.1919-02	-.1235-05	-.3490-08	-.4680+02	.6963-03	-.1229-05
.5000+18	-.2393-02	-.1563-05	-.4313-08	-.4680+02	.7131-03	-.1194-05
.6000+18	-.2865-02	-.1895-05	-.5128-08	-.4681+02	.7297-03	-.1160-05
.7000+18	-.3334-02	-.2232-05	-.5946-08	-.4682+02	.7463-03	-.1125-05
.8000+18	-.3801-02	-.2577-05	-.6734-08	-.4682+02	.7627-03	-.1091-05
.9000+18	-.4266-02	-.2930-05	-.7503-08	-.4683+02	.7790-03	-.1057-05
.1000+19	-.4729-02	-.3287-05	-.8263-08	-.4683+02	.7952-03	-.1024-05
.2000+19	-.9237-02	-.7167-05	-.1520-07	-.4688+02	.9512-03	-.7056-06
.3000+19	-.1354-01	-.1154-04	-.2107-07	-.4693+02	.1096-02	-.4171-06
.4000+19	-.1766-01	-.1632-04	-.2611-07	-.4698+02	.1231-02	-.1566-06
.5000+19	-.2140-01	-.2144-04	-.3046-07	-.4703+02	.1357-02	-.1773-07
.6000+19	-.2538-01	-.2683-04	-.3433-07	-.4707+02	.1473-02	-.2866-06
.7000+19	-.2901-01	-.3244-04	-.3781-07	-.4712+02	.1580-02	-.4727-06
.8000+19	-.3250-01	-.3822-04	-.4105-07	-.4716+02	.1679-02	-.6374-06
.9000+19	-.3586-01	-.4414-04	-.4409-07	-.4720+02	.1770-02	-.7423-06
.1000+20	-.3911-01	-.5014-04	-.4705-07	-.4724+02	.1854-02	-.9089-06
.2000+20	-.6643-01	-.1109-03	-.7955-07	-.4756+02	.2394-02	-.1478-05
.3000+20	-.8759-01	-.1668-03	-.1245-06	-.4780+02	.2621-02	-.1454-05
.4000+20	-.1051+00	-.2165-03	-.1793-06	-.4798+02	.2729-02	-.1113-05
.5000+20	-.1202+00	-.2611-03	-.2396-06	-.4813+02	.2793-02	-.1182-05
.6000+20	-.1335+00	-.3016-03	-.3028-06	-.4825+02	.2838-02	-.1074-05
.7000+20	-.1456+00	-.3391-03	-.3679-06	-.4836+02	.2872-02	-.9828-06
.8000+20	-.1567+00	-.3740-03	-.4341-06	-.4845+02	.2898-02	-.9025-06
.9000+20	-.1670+00	-.4068-03	-.5012-06	-.4853+02	.2919-02	-.8327-06
.1000+21	-.1766+00	-.4378-03	-.5688-06	-.4861+02	.2936-02	-.7740-06
.2000+21	-.2500+00	-.6887-03	-.1231-05	-.4910+02	.3023-02	-.8956-06
.3000+21	-.3049+00	-.AA51-03	-.1811-05	-.4939+02	.3060-02	-.1730-05
.4000+21	-.3491+00	-.1055-02	-.2297-05	-.4960+02	.3052-02	-.2706-05
.5000+21	-.3874+00	-.1209-02	-.2701-05	-.4977+02	.3006-02	-.3614-05
.6000+21	-.4216+00	-.1350-02	-.3042-05	-.4990+02	.2930-02	-.4394-05
.7000+21	-.4528+00	-.1482-02	-.3332-05	-.5001+02	.2833-02	-.5035-05
.8000+21	-.4816+00	-.1605-02	-.3583-05	-.5011+02	.2719-02	-.5548-05
.9000+21	-.5087+00	-.1721-02	-.3803-05	-.5020+02	.2594-02	-.5949-05
.1000+22	-.5343+00	-.1831-02	-.3999-05	-.5028+02	.2461-02	-.6256-05
.2000+22	-.7433+00	-.2679-02	-.5367-05	-.5080+02	.1068-02	-.6892-05
.3000+22	-.9111+00	-.3253-02	-.6392-05	-.5112+02	-.6454-04	-.6561-05
.4000+22	-.1060+01	-.3682-02	-.7344-05	-.5136+02	-.9255-03	-.6343-05
.5000+22	-.1198+01	-.4023-02	-.8283-05	-.5157+02	-.1592-02	-.6340-05
.6000+22	-.1328+01	-.4306-02	-.9222-05	-.5175+02	-.2121-02	-.6563-05
.7000+22	-.1452+01	-.4548-02	-.1015-04	-.5191+02	-.2549-02	-.6984-05
.8000+22	-.1572+01	-.4762-02	-.1107-04	-.5206+02	-.2906-02	-.7558-05
.9000+22	-.1649+01	-.4956-02	-.1197-04	-.5220+02	-.3211-02	-.8235-05
.1000+23	-.1803+01	-.5133-02	-.1284-04	-.5234+02	-.3478-02	-.8974-05
.2000+23	-.2852+01	-.6472-02	-.2011-04	-.5351+02	-.5282-02	-.1619-04
.3000+23	-.3819+01	-.7412-02	-.2587-04	-.5454+02	-.6467-02	-.2201-04
.4000+23	-.4746+01	-.8144-02	-.3089-04	-.5550+02	-.7359-02	-.2710-04
.5000+23	-.5647+01	-.8741-02	-.3547-04	-.5642+02	-.8077-02	-.3169-04
.6000+23	-.6530+01	-.9230-02	-.3985-04	-.5732+02	-.8672-02	-.3595-04
.7000+23	-.7400+01	-.9625-02	-.4423-04	-.5820+02	-.9165-02	-.4009-04
.8000+23	-.8259+01	-.9933-02	-.4876-04	-.5907+02	-.9564-02	-.4429-04
.9000+23	-.9109+01	-.A161-01	-.5354-04	-.5993+02	-.9877-02	-.4867-04

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE
AND RATE OF DISSOCIATION - Continued

(1) Wavelength interval from 1882.2 to 1902.4 Å

COLUMN DENSITY	A	B	C	D	E	F
.1000+18	-.2635-03	.7144-07	-.1011-08	-.4739+02	-.2595-03	.3748-05
.2000+18	-.5258-03	.1421-06	-.2032-08	-.4739+02	-.2493-03	.3733-05
.3000+18	-.7871-03	.2063-06	-.3022-08	-.4740+02	-.2392-03	.3717-05
.4000+18	-.1047-02	.2702-06	-.4025-08	-.4740+02	-.2291-03	.3702-05
.5000+18	-.1307-02	.3310-06	-.5017-08	-.4741+02	-.2190-03	.3687-05
.6000+18	-.1565-02	.3928-06	-.6020-08	-.4741+02	-.2091-03	.3672-05
.7000+18	-.1823-02	.4464-06	-.6994-08	-.4741+02	-.1991-03	.3657-05
.8000+18	-.2080-02	.4991-06	-.7968-08	-.4742+02	-.1892-03	.3643-05
.9000+18	-.2335-02	.5505-06	-.8941-08	-.4742+02	-.1794-03	.3628-05
.1000+19	-.2590-02	.5983-06	-.9906-08	-.4743+02	-.1696-03	.3614-05
.2000+19	-.5088-02	.9424-06	-.1926-07	-.4746+02	-.7455-04	.3476-05
.3000+19	-.7511-02	.1059-05	-.2813-07	-.4750+02	.1563-04	.3350-05
.4000+19	-.9832-02	.9734-06	-.3657-07	-.4754+02	.1011-03	.3236-05
.5000+19	-.1209-01	.7104-06	-.4465-07	-.4757+02	.1819-03	.3132-05
.6000+19	-.1427-01	.2855-06	-.5240-07	-.4761+02	.2584-03	.3039-05
.7000+19	-.1639-01	.2753-06	-.5989-07	-.4764+02	.3307-03	.2955-05
.8000+19	-.1844-01	.9620-06	-.6713-07	-.4767+02	.3989-03	.2881-05
.9000+19	-.2043-01	.1757-05	-.7418-07	-.4770+02	.4633-03	.2815-05
.1000+20	-.2237-01	.2646-05	-.8105-07	-.4773+02	.5240-03	.2758-05
.2000+20	-.3920-01	.1475-04	-.1444-06	-.4799+02	.9673-03	.2519-05
.3000+20	-.5275-01	.2899-04	-.2046-06	-.4820+02	.1214-02	.2615-05
.4000+20	-.6421-01	.4317-04	-.2647-06	-.4836+02	.1364-02	.2602-05
.5000+20	-.7423-01	.5677-04	-.3248-06	-.4849+02	.1471-02	.2983-05
.6000+20	-.8328-01	.6975-04	-.3848-06	-.4860+02	.1557-02	.3134-05
.7000+20	-.9136-01	.8216-04	-.4444-06	-.4869+02	.1632-02	.3256-05
.8000+20	-.9887-01	.9410-04	-.5037-06	-.4878+02	.1700-02	.3357-05
.9000+20	-.1059+00	-.1056-03	-.5625-06	-.4886+02	.1763-02	.3444-05
.1000+21	-.1124+00	-.1168-03	-.6211-06	-.4892+02	.1821-02	.3522-05
.2000+21	-.1630+00	-.2137-03	-.1193-05	-.4940+02	.2211-02	.4008-05
.3000+21	-.1994+00	-.2929-03	-.1738-05	-.4969+02	.2419-02	.4079-05
.4000+21	-.2287+00	-.3614-03	-.2248-05	-.4990+02	.2549-02	.3664-05
.5000+21	-.2537+00	-.4227-03	-.2722-05	-.5007+02	.2636-02	.3506-05
.6000+21	-.2758+00	-.4788-03	-.3162-05	-.5020+02	.2691-02	.3090-05
.7000+21	-.2956+00	-.5309-03	-.3572-05	-.5032+02	.2723-02	.2662-05
.8000+21	-.3137+00	-.5796-03	-.3955-05	-.5042+02	.2738-02	.2245-05
.9000+21	-.3305+00	-.6255-03	-.4314-05	-.5051+02	.2740-02	.1851-05
.1000+22	-.3462+00	-.6690-03	-.4654-05	-.5059+02	.2731-02	.1484-05
.2000+22	-.4686+00	-.1016-02	-.7354-05	-.5110+02	.2417-02	-.1050-05
.3000+22	-.5608+00	-.1273-02	-.9389-05	-.5140+02	.2067-02	-.2889-05
.4000+22	-.6391+00	-.1487-02	-.1107-04	-.5160+02	.1764-02	-.4631-05
.5000+22	-.7092+00	-.1677-02	-.1249-04	-.5177+02	.1491-02	-.6282-05
.6000+22	-.7739+00	-.1850-02	-.1372-04	-.5190+02	.1238-02	-.7822-05
.7000+22	-.8346+00	-.2010-02	-.1480-04	-.5202+02	.9995-03	-.9254-05
.8000+22	-.8923+00	-.2161-02	-.1574-04	-.5212+02	.7754-03	-.1058-04
.9000+22	-.9476+00	-.2304-02	-.1657-04	-.5222+02	.5634-03	-.1181-04
.1000+23	-.1001+01	-.2441-02	-.1730-04	-.5230+02	.3620-03	-.1294-04
.2000+23	-.1470+01	-.3569-02	-.2148-04	-.5297+02	-.1297-02	-.1071-04
.3000+23	-.1881+01	-.4393-02	-.2345-04	-.5347+02	-.2559-02	-.2186-04
.4000+23	-.2263+01	-.5008-02	-.2510-04	-.5391+02	-.3520-02	-.2283-04
.5000+23	-.2627+01	-.5478-02	-.2683-04	-.5431+02	-.4251-02	-.2377-04
.6000+23	-.2980+01	-.5849-02	-.2874-04	-.5469+02	-.4816-02	-.2496-04
.7000+23	-.3323+01	-.6149-02	-.3079-04	-.5506+02	-.5262-02	-.2642-04
.8000+23	-.3660+01	-.6397-02	-.3297-04	-.5542+02	-.5621-02	-.2812-04
.9000+23	-.3991+01	-.6607-02	-.3525-04	-.5576+02	-.5917-02	-.3001-04
.1000+24	-.4317+01	-.6789-02	-.3761-04	-.5610+02	-.6164-02	-.3206-04
.2000+24	-.7441+01	-.7972-02	-.6231-04	-.5929+02	-.7551-02	-.5603-04

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE
AND RATE OF DISSOCIATION - Continued

(m) Wavelength interval from 1902.4 to 1924.0 Å

COLUMN DENSITY	A	B	C	D	E	F
.1000+18	-.1074+03	.3480+07	-.6400+09	-.4829+02	-.2879+03	.5583+05
.2000+18	-.2144+03	.6986+07	-.1279+08	-.4829+02	-.2834+03	.5575+05
.3000+18	-.3213+03	.1011+06	-.1901+08	-.4829+02	-.2789+03	.5567+05
.4000+18	-.4280+03	.1322+06	-.2522+08	-.4829+02	-.2744+03	.5560+05
.5000+18	-.5346+03	.1653+06	-.3161+08	-.4829+02	-.2699+03	.5552+05
.6000+18	-.6411+03	.1964+06	-.3783+08	-.4829+02	-.2654+03	.5544+05
.7000+18	-.7474+03	.2284+06	-.4414+08	-.4830+02	-.2609+03	.5536+05
.8000+18	-.8536+03	.2572+06	-.5034+08	-.4830+02	-.2565+03	.5528+05
.9000+18	-.9506+03	.2885+06	-.5665+08	-.4830+02	-.2520+03	.5520+05
.1000+19	-.1066+02	.3184+06	-.6288+08	-.4830+02	-.2475+03	.5512+05
.2000+19	-.2117+02	.5890+06	-.1246+07	-.4831+02	-.2033+03	.5435+05
.3000+19	-.3155+02	.8103+06	-.1849+07	-.4833+02	-.1599+03	.5360+05
.4000+19	-.4190+02	.9912+06	-.2445+07	-.4834+02	-.1172+03	.5288+05
.5000+19	-.5162+02	.1128+05	-.3029+07	-.4836+02	-.7533+04	.5217+05
.6000+19	-.6101+02	.1226+05	-.3604+07	-.4837+02	-.3417+04	.5148+05
.7000+19	-.7177+02	.1281+05	-.4167+07	-.4838+02	.6251+05	.5081+05
.8000+19	-.8152+02	.1299+05	-.4722+07	-.4840+02	.4596+04	.5016+05
.9000+19	-.9114+02	.1280+05	-.5268+07	-.4841+02	.8494+04	.4954+05
.1000+20	-.1007+01	.1224+05	-.5807+07	-.4842+02	.1232+03	.4893+05
.2000+20	-.1808+01	-.0149+06	-.1081+06	-.4855+02	.4685+03	.4383+05
.3000+20	-.2697+01	-.5240+05	-.1533+06	-.4866+02	.7520+03	.4033+05
.4000+20	-.3419+01	-.1093+04	-.1956+06	-.4876+02	.9823+03	.3814+05
.5000+20	-.4078+01	-.1744+04	-.2363+06	-.4886+02	.1168+02	.3700+05
.6000+20	-.4644+01	-.2440+04	-.2761+06	-.4894+02	.1317+02	.3666+05
.7000+20	-.5245+01	-.3155+04	-.3156+06	-.4902+02	.1437+02	.3689+05
.8000+20	-.5764+01	-.3873+04	-.3550+06	-.4910+02	.1533+02	.3754+05
.9000+20	-.6259+01	-.4585+04	-.3943+06	-.4916+02	.1610+02	.3497+05
.1000+21	-.6721+01	-.5285+04	-.4338+06	-.4922+02	.1673+02	.3056+05
.2000+21	-.1035+00	-.1136+03	-.9291+06	-.4966+02	.1973+02	.5028+05
.3000+21	-.1301+00	-.1617+03	-.1215+05	-.4993+02	.2121+02	.5644+05
.4000+21	-.1516+00	-.2024+03	-.1584+05	-.5013+02	.2230+02	.5985+05
.5000+21	-.1701+00	-.2383+03	-.1948+05	-.5028+02	.2315+02	.6144+05
.6000+21	-.1865+00	-.2704+03	-.2295+05	-.5041+02	.2386+02	.6175+05
.7000+21	-.2013+00	-.3008+03	-.2630+05	-.5052+02	.2447+02	.6117+05
.8000+21	-.2148+00	-.3288+03	-.2953+05	-.5061+02	.2498+02	.6004+05
.9000+21	-.2274+00	-.3552+03	-.3266+05	-.5070+02	.2540+02	.5559+05
.1000+22	-.2371+00	-.3803+03	-.3564+05	-.5077+02	.2574+02	.5697+05
.2000+22	-.3309+00	-.5831+03	-.6193+05	-.5126+02	.2620+02	.4006+05
.3000+22	-.3906+00	-.7369+03	-.8352+05	-.5153+02	.2473+02	.2179+05
.4000+22	-.4581+00	-.8651+03	-.1023+04	-.5172+02	.2289+02	.4367+06
.5000+22	-.5105+00	-.9770+03	-.1191+04	-.5186+02	.2098+02	.6063+06
.6000+22	-.5589+00	-.1077+02	-.1345+04	-.5198+02	.1913+02	.1963+05
.7000+22	-.6043+00	-.1168+02	-.1487+04	-.5208+02	.1738+02	.3253+05
.8000+22	-.6475+00	-.1252+02	-.1621+04	-.5217+02	.1573+02	.4489+05
.9000+22	-.6880+00	-.1330+02	-.1747+04	-.5225+02	.1421+02	.5685+05
.1000+23	-.7249+00	-.1404+02	-.1867+04	-.5232+02	.1279+02	.6498+05
.2000+23	-.1043+01	-.2003+02	-.2835+04	-.5246+02	.2721+03	.1721+04
.3000+23	-.1398+01	-.2514+02	-.3547+04	-.5325+02	-.3863+03	.2565+04
.4000+23	-.1603+01	-.3001+02	-.4114+04	-.5359+02	-.9564+03	.3241+04
.5000+23	-.1974+01	-.3472+02	-.4595+04	-.5391+02	-.1505+02	.3790+04
.6000+23	-.2256+01	-.3920+02	-.5024+04	-.5420+02	-.2040+02	.4254+04
.7000+23	-.2524+01	-.4343+02	-.5422+04	-.5449+02	-.2554+02	.4664+04
.8000+23	-.2707+01	-.4738+02	-.5801+04	-.5477+02	-.3042+02	.5090+04
.9000+23	-.3063+01	-.5106+02	-.6170+04	-.5505+02	-.3501+02	.5398+04
.1000+24	-.3327+01	-.5447+02	-.6534+04	-.5532+02	-.3930+02	.5784+04
.2000+24	-.5895+01	-.7752+02	-.1019+03	-.5793+02	-.6848+02	.9212+04
.3000+24	-.8404+01	-.8874+02	-.1403+03	-.6045+02	-.8265+02	.1294+03

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE
AND RATE OF DISSOCIATION - Continued

(n) Wavelength interval from 1924.0 to 1947.0 Å

COLUMN	A	B	C	D	E	F
DENSITY						
.1000+18	-.4319-06	.2509-07	-.2794-09	-.4920+02	-.5919-03	.6448-05
.2000+18	-.4618-04	.5333-07	-.5797-09	-.4920+02	-.5907-03	.6446-05
.3000+18	-.1292-03	.7896-07	-.8598-09	-.4920+02	-.5896-03	.6445-05
.4000+18	-.1721-03	.1063-06	-.1150-08	-.4920+02	-.5884-03	.6443-05
.5000+18	-.2150-03	.1291-06	-.1421-08	-.4920+02	-.5873-03	.6441-05
.6000+18	-.2540-03	.1572-06	-.1711-08	-.4920+02	-.5862-03	.6439-05
.7000+18	-.3009-03	.1815-06	-.1990-08	-.4920+02	-.5850-03	.6438-05
.8000+18	-.3438-03	.2068-06	-.2271-08	-.4920+02	-.5839-03	.6436-05
.9000+18	-.3867-03	.2332-06	-.2561-08	-.4920+02	-.5827-03	.6434-05
.1000+19	-.4296-03	.2588-06	-.2840-08	-.4920+02	-.5816-03	.6432-05
.2000+19	-.8576-03	.5123-06	-.5675-08	-.4921+02	-.5701-03	.6415-05
.3000+19	-.1284-02	.7628-06	-.8502-08	-.4921+02	-.5587-03	.6397-05
.4000+19	-.1710-02	.1004-05	-.1130-07	-.4921+02	-.5474-03	.6380-05
.5000+19	-.2134-02	.1244-05	-.1411-07	-.4922+02	-.5360-03	.6363-05
.6000+19	-.2557-02	.1475-05	-.1688-07	-.4922+02	-.5247-03	.6346-05
.7000+19	-.2978-02	.1705-05	-.1967-07	-.4922+02	-.5135-03	.6329-05
.8000+19	-.3399-02	.1928-05	-.2243-07	-.4923+02	-.5022-03	.6312-05
.9000+19	-.3818-02	.2146-05	-.2519-07	-.4923+02	-.4910-03	.6295-05
.1000+20	-.4235-02	.2359-05	-.2793-07	-.4923+02	-.4799-03	.6278-05
.2000+20	-.6343-02	.4229-05	-.5482-07	-.4927+02	-.3701-03	.6115-05
.3000+20	-.1233-01	.5647-05	-.8077-07	-.4930+02	-.2636-03	.5962-05
.4000+20	-.1620-01	.6650-05	-.1059-06	-.4934+02	-.1605-03	.5817-05
.5000+20	-.1996-01	.7273-05	-.1302-06	-.4937+02	-.1055-04	.5681-05
.6000+20	-.2361-01	.7547-05	-.1539-06	-.4940+02	.3617-04	.5553-05
.7000+20	-.2716-01	.7494-05	-.1770-06	-.4943+02	.1298-03	.5434-05
.8000+20	-.3061-01	.7151-05	-.1996-06	-.4946+02	.2203-03	.5323-05
.9000+20	-.3396-01	.6534-05	-.2216-06	-.4949+02	.3078-03	.5220-05
.1000+21	-.3723-01	.5674-05	-.2433-06	-.4952+02	.3924-03	.5124-05
.2000+21	-.6572-01	.1248-04	-.4464-06	-.4980+02	.1089-02	.4543-05
.3000+21	-.8842-01	.3932-04	-.6428-06	-.5003+02	.1563-02	.4479-05
.4000+21	-.1072+00	.6806-04	-.8432-06	-.5022+02	.1876-02	.4726-05
.5000+21	-.1231+00	.9585-04	-.1050-05	-.5039+02	.2081-02	.5127-05
.6000+21	-.1370+00	.1217-03	-.1261-05	-.5053+02	.2216-02	.5579-05
.7000+21	-.1453+00	.1454-03	-.1475-05	-.5065+02	.2305-02	.6023-05
.8000+21	-.1605+00	.1671-03	-.1691-05	-.5076+02	.2366-02	.6426-05
.9000+21	-.1766+00	.1870-03	-.1906-05	-.5086+02	.2408-02	.6776-05
.1000+22	-.1800+00	.2053-03	-.2120-05	-.5094+02	.2439-02	.7069-05
.2000+22	-.2500+00	.3386-03	-.4090-05	-.5148+02	.2525-02	.7677-05
.3000+22	-.3000+00	.4337-03	-.5711-05	-.5176+02	.2506-02	.6347-05
.4000+22	-.3614+00	.5165-03	-.7044-05	-.5195+02	.2452-02	.4566-05
.5000+22	-.3740+00	.5939-03	-.8162-05	-.5209+02	.2377-02	.2796-05
.6000+22	-.4116+00	.6680-03	-.9119-05	-.5220+02	.2289-02	.1192-05
.7000+22	-.4430+00	.7394-03	-.9958-05	-.5229+02	.2190-02	.2018-06
.8000+22	-.4729+00	.8082-03	-.1071-04	-.5236+02	.2083-02	.1390-05
.9000+22	-.5015+00	.8743-03	-.1139-04	-.5243+02	.1969-02	.2397-05
.1000+23	-.5291+00	.9379-03	-.1202-04	-.5249+02	.1850-02	.3252-05
.2000+23	-.7771+00	.1440-02	-.1704-04	-.5289+02	.7251-03	.8026-05
.3000+23	-.1002+01	.1770-02	-.2130-04	-.5318+02	.6202-04	.1141-04
.4000+23	-.1216+01	.2008-02	-.2525-04	-.5343+02	.5965-03	.1489-04
.5000+23	-.1423+01	.2193-02	-.2897-04	-.5366+02	.9848-03	.1843-04
.6000+23	-.1627+01	.2345-02	-.3248-04	-.5389+02	.1284-02	.2193-04
.7000+23	-.1828+01	.2473-02	-.3580-04	-.5410+02	.1526-02	.2535-04
.8000+23	-.2026+01	.2586-02	-.3896-04	-.5431+02	.1727-02	.2466-04
.9000+23	-.2222+01	.2686-02	-.4197-04	-.5451+02	.1898-02	.3185-04
.1000+24	-.2416+01	.2778-02	-.4483-04	-.5472+02	.2047-02	.3492-04
.2000+24	-.4304+01	.3455-02	-.6774-04	-.5665+02	.3011-02	.5982-04
.3000+24	-.6135+01	.3880-02	-.8500-04	-.5850+02	.3603-02	.7786-04
.4000+24	-.7936+01	.4060-02	-.1006-03	-.6031+02	.3930-02	.9338-04

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE
AND RATE OF DISSOCIATION - Continued

(o) Wavelength interval from 1947.0 to 1971.8 Å

COLUMN DENSITY	A	B	C	D	E	F
.1000+18	-.10a3-04	.9373-08	-.9984-10	-.5059+02	-.8222-03	.8862-05
.2000+18	-.2144-04	.1720-07	-.1907-09	-.5059+02	-.8217-03	.8861-05
.3000+18	-.3216-04	.2473-07	-.2794-09	-.5059+02	-.8213-03	.8860-05
.4000+18	-.4289-04	.3420-07	-.3800-09	-.5059+02	-.8210-03	.8859-05
.5000+18	-.5362-04	.4648-07	-.4922-09	-.5059+02	-.8206-03	.8859-05
.6000+18	-.6424-04	.5450-07	-.5901-09	-.5059+02	-.8201-03	.8858-05
.7000+18	-.7488-04	.6241-07	-.6802-09	-.5059+02	-.8197-03	.8857-05
.8000+18	-.8569-04	.7220-07	-.7801-09	-.5059+02	-.8194-03	.8856-05
.9000+18	-.9632-04	.8080-07	-.8799-09	-.5059+02	-.8190-03	.8856-05
.1000+19	-.1070-03	.9027-07	-.9405-09	-.5059+02	-.8186-03	.8855-05
.2000+19	-.2139-03	.1797-06	-.1951-08	-.5059+02	-.8146-03	.8848-05
.3000+19	-.3207-03	.2706-06	-.2931-08	-.5059+02	-.8106-03	.8840-05
.4000+19	-.4272-03	.3601-06	-.3912-08	-.5060+02	-.8066-03	.8833-05
.5000+19	-.5337-03	.4481-06	-.4882-08	-.5060+02	-.8027-03	.8826-05
.6000+19	-.6401-03	.5357-06	-.5854-08	-.5060+02	-.7987-03	.8819-05
.7000+19	-.7463-03	.6231-06	-.6825-08	-.5060+02	-.7947-03	.8812-05
.8000+19	-.8526-03	.7113-06	-.7797-08	-.5060+02	-.7908-03	.8805-05
.9000+19	-.9596-03	.7967-06	-.8759-08	-.5060+02	-.7868-03	.8798-05
.1000+20	-.1065-02	.8500-06	-.9740-08	-.5060+02	-.7829-03	.8790-05
.2000+20	-.2118-02	.1726-05	-.1936-07	-.5061+02	-.7438-03	.8720-05
.3000+20	-.3161-02	.2520-05	-.2885-07	-.5063+02	-.7053-03	.8652-05
.4000+20	-.4143-02	.3272-05	-.3824-07	-.5064+02	-.6673-03	.8585-05
.5000+20	-.5214-02	.3983-05	-.4751-07	-.5065+02	-.6299-03	.8520-05
.6000+20	-.6285-02	.4650-05	-.5666-07	-.5066+02	-.5930-03	.8456-05
.7000+20	-.7256-02	.5280-05	-.6572-07	-.5067+02	-.5566-03	.8393-05
.8000+20	-.8218-02	.5871-05	-.7467-07	-.5068+02	-.5207-03	.8333-05
.9000+20	-.9109-02	.6425-05	-.8353-07	-.5069+02	-.4854-03	.8273-05
.1000+21	-.1017-01	.6945-05	-.9230-07	-.5070+02	-.4506-03	.8216-05
.2000+21	-.1940-01	.1037-04	-.1754-06	-.5081+02	-.1304-03	.7719-05
.3000+21	-.2782-01	.1126-04	-.2521-06	-.5090+02	-.1417-03	.7358-05
.4000+21	-.3558-01	.1032-04	-.3245-06	-.5099+02	-.3700-03	.7116-05
.5000+21	-.4276-01	.8111-05	-.3940-06	-.5107+02	-.5592-03	.6977-05
.6000+21	-.4945-01	.5036-05	-.4617-06	-.5114+02	-.7137-03	.6924-05
.7000+21	-.5572-01	.1401-05	-.5284-06	-.5121+02	-.8382-03	.6942-05
.8000+21	-.6143-01	.2579-05	-.5944-06	-.5128+02	-.9370-03	.7017-05
.9000+21	-.6723-01	.6742-05	-.6601-06	-.5133+02	-.1014-02	.7135-05
.1000+22	-.7254-01	.1097-04	-.7258-06	-.5139+02	-.1073-02	.7286-05
.2000+22	-.1160+00	.4748-04	-.1389-05	-.5176+02	-.1170-02	.9131-05
.3000+22	-.1511+00	.7106-04	-.2050-05	-.5197+02	-.1059-02	.1023-04
.4000+22	-.1767+00	.8689-04	-.2692-05	-.5211+02	-.9652-03	.1065-04
.5000+22	-.2066+00	.9847-04	-.3309-05	-.5222+02	-.8978-03	.1065-04
.6000+22	-.2317+00	.1077-03	-.3900-05	-.5231+02	-.8513-03	.1039-04
.7000+22	-.2553+00	.1156-03	-.4465-05	-.5238+02	-.8197-03	.9969-05
.8000+22	-.2780+00	.1228-03	-.5006-05	-.5244+02	-.7984-03	.9445-05
.9000+22	-.2997+00	.1298-03	-.5523-05	-.5250+02	-.7835-03	.8862-05
.1000+23	-.3208+00	.1367-03	-.6018-05	-.5255+02	-.7725-03	.8745-05
.2000+23	-.5096+00	.2130-03	-.1006-04	-.5291+02	-.6846-03	.2303-05
.3000+23	-.6746+00	.3006-03	-.1306-04	-.5315+02	-.5624-03	.2288-05
.4000+23	-.8347+00	.3909-03	-.1547-04	-.5335+02	-.4278-03	.5865-05
.5000+23	-.9937+00	.4800-03	-.1751-04	-.5353+02	-.2935-03	.8785-05
.6000+23	-.1145+01	.5664-03	-.1929-04	-.5370+02	-.1641-03	.1126-04
.7000+23	-.1294+01	.6493-03	-.2088-04	-.5386+02	-.4121-04	.1340-04
.8000+23	-.1442+01	.7286-03	-.2232-04	-.5402+02	-.7475-04	.1531-04
.9000+23	-.1548+01	.8044-03	-.2365-04	-.5417+02	-.1840-03	.1702-04
.1000+24	-.1733+01	.8769-03	-.2487-04	-.5433+02	-.2870-03	.1859-04
.2000+24	-.3147+01	.1461-02	-.3399-04	-.5577+02	-.1066-02	.2965-04
.3000+24	-.4531+01	.1884-02	-.4021-04	-.5717+02	-.1588-02	.3681-04
.4000+24	-.5900+01	.2211-02	-.4504-04	-.5855+02	-.1979-02	.4219-04
.5000+24	-.7259+01	.2470-02	-.4909-04	-.5991+02	-.2286-02	.4657-04
.6000+24	-.8611+01	.2675-02	-.5266-04	-.6127+02	-.2529-02	-.5034-04

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE
AND RATE OF DISSOCIATION - Continued

(p) Wavelength interval from 1971.8 to 1985.0 Å

COLUMN DENSITY	A	B	C	D	E	F
.1000+18	-.9206-05	.1810-08	-.2012-10	-.5087+02	-.2438-03	.2521-05
.2000+18	-.1641-04	.5811-08	-.5066-10	-.5087+02	-.2435-03	.2520-05
.3000+18	-.2452-04	.7394-08	-.6929-10	-.5087+02	-.2431-03	.2520-05
.4000+18	-.3254-04	.7175-08	-.7972-10	-.5087+02	-.2428-03	.2519-05
.5000+18	-.4067-04	.1076-07	-.1103-09	-.5087+02	-.2425-03	.2519-05
.6000+18	-.4875-04	.1118-07	-.1200-09	-.5087+02	-.2421-03	.2518-05
.7000+18	-.5686-04	.1589-07	-.1498-09	-.5088+02	-.2418-03	.2518-05
.8000+18	-.6497-04	.1551-07	-.1594-09	-.5088+02	-.2415-03	.2517-05
.9000+18	-.7309-04	.1784-07	-.1803-09	-.5088+02	-.2411-03	.2517-05
.1000+19	-.8111-04	.2055-07	-.2101-09	-.5088+02	-.2408-03	.2516-05
.2000+19	-.1650-03	.3791-07	-.3994-09	-.5088+02	-.2375-03	.2511-05
.3000+19	-.2427-03	.5846-07	-.6102-09	-.5088+02	-.2341-03	.2506-05
.4000+19	-.3234-03	.7818-07	-.9203-09	-.5088+02	-.2304-03	.2501-05
.5000+19	-.4041-03	.9737-07	-.1020-08	-.5088+02	-.2275-03	.2496-05
.6000+19	-.4845-03	.1151-06	-.1220-08	-.5088+02	-.2242-03	.2491-05
.7000+19	-.5648-03	.1327-06	-.1421-08	-.5088+02	-.2209-03	.2486-05
.8000+19	-.6451-03	.1503-06	-.1621-08	-.5088+02	-.2176-03	.2481-05
.9000+19	-.7252-03	.1666-06	-.1811-08	-.5089+02	-.2144-03	.2476-05
.1000+20	-.8053-03	.1836-06	-.2012-08	-.5089+02	-.2111-03	.2471-05
.2000+20	-.1671-02	.3428-06	-.3987-08	-.5090+02	-.1788-03	.2423-05
.3000+20	-.2386-02	.4714-06	-.5884-08	-.5091+02	-.1471-03	.2376-05
.4000+20	-.3143-02	.5795-06	-.7764-08	-.5093+02	-.1163-03	.2331-05
.5000+20	-.3910-02	.6593-06	-.9570-08	-.5094+02	-.8607-04	.2288-05
.6000+20	-.4669-02	.7188-06	-.1134-07	-.5095+02	-.5658-04	.2246-05
.7000+20	-.5419-02	.7531-06	-.1306-07	-.5096+02	-.2779-04	.2206-05
.8000+20	-.6160-02	.7691-06	-.1475-07	-.5097+02	.3314-06	.2168-05
.9000+20	-.6911-02	.7653-06	-.1642-07	-.5099+02	.2778-04	.2131-05
.1000+21	-.7673-02	.7400-06	-.1802-07	-.5100+02	.5457-04	.2096-05
.2000+21	-.1428-01	.3429-06	-.3269-07	-.5111+02	.2880-03	.1824-05
.3000+21	-.2069-01	.2658-05	-.4561-07	-.5121+02	.4652-03	.1679-05
.4000+21	-.2617-01	.5612-05	-.5777-07	-.5129+02	.5957-03	.1633-05
.5000+21	-.3165-01	.4935-05	-.6973-07	-.5137+02	.6885-03	.1663-05
.6000+21	-.3658-01	.1242-04	-.8185-07	-.5144+02	.7514-03	.1745-05
.7000+21	-.4123-01	.1594-04	-.9430-07	-.5150+02	.7915-03	.1863-05
.8000+21	-.4563-01	.1044-04	-.1071-06	-.5155+02	.8144-03	.2002-05
.9000+21	-.4944-01	.2279-04	-.1204-06	-.5160+02	.8246-03	.2153-05
.1000+22	-.5347-01	.2605-04	-.1341-06	-.5164+02	.8258-03	.2307-05
.2000+22	-.8827-01	.5193-04	-.2957-06	-.5193+02	.6945-03	.3553-05
.3000+22	-.1170+00	.6066-04	-.4e12-06	-.5208+02	.5757-03	.4280-05
.4000+22	-.1429+00	.8308-04	-.6235-06	-.5219+02	.4912-03	.4767-05
.5000+22	-.1671+00	.9382-04	-.8010-06	-.5228+02	.4257-03	.5118-05
.6000+22	-.1890+00	.1027-03	-.9824-06	-.5235+02	.3721-03	.5177-05
.7000+22	-.2119+00	.1101-03	-.1167-05	-.5241+02	.3264-03	.5565-05
.8000+22	-.2330+00	.1163-03	-.1354-05	-.5246+02	.2868-03	.5698-05
.9000+22	-.2516+00	.1217-03	-.1543-05	-.5251+02	.2518-03	.5784-05
.1000+23	-.2717+00	.1262-03	-.1733-05	-.5255+02	.2208-03	.5831-05
.2000+23	-.4577+00	.1470-03	-.3648-05	-.5287+02	.4881-04	.5022-05
.3000+23	-.6261+00	.1510-03	-.5476-05	-.5309+02	.5037-05	.3215-05
.4000+23	-.7867+00	.1539-03	-.7170-05	-.5329+02	.4958-05	.1197-05
.5000+23	-.9425+00	.1604-03	-.8729-05	-.5347+02	.1655-04	.7871-06
.6000+23	-.1095+01	.1717-03	-.1017-04	-.5364+02	.2783-04	.2663-05
.7000+23	-.1245+01	.1878-03	-.1150-04	-.5381+02	.3438-04	.4411-05
.8000+23	-.1393+01	.2083-03	-.1273-04	-.5397+02	.3479-04	.6034-05
.9000+23	-.1539+01	.2326-03	-.1389-04	-.5412+02	.2895-04	.7539-05
.1000+24	-.1684+01	.2603-03	-.1497-04	-.5428+02	.1727-04	.8040-05
.2000+24	-.3040+01	.6364-03	-.2320-04	-.5573+02	.2910-03	.1016-04
.3000+24	-.4457+01	.1074-02	-.2881-04	-.5711+02	.7225-03	.2579-04
.4000+24	-.5886+01	.1521-02	-.3301-04	-.5847+02	.1178-02	.3064-04
.5000+24	-.7146+01	.1963-02	-.3630-04	-.5982+02	.1624-02	.3439-04
.6000+24	-.8478+01	.2397-02	-.3893-04	-.6115+02	.2067-02	.3737-04

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE
AND RATE OF DISSOCIATION - Continued

(q) Wavelength interval from 1985.0 to 2000.0 Å

COLUMN DENSITY	A	B	C	D	E	F
.1000+18	-.1907+05	.3941-08	-.1049+10	-.5284+02	-.1783-03	.2017-04
.2000+18	-.3820-05	.4657-08	-.6035-10	-.5284+02	-.1783-03	.2017-04
.3000+18	-.5724-05	.6437-08	-.8941-10	-.5284+02	-.1784-03	.2017-04
.4000+18	-.7413-05	.9768-08	-.1304-09	-.5284+02	-.1785-03	.2017-04
.5000+18	-.9333-05	.1339-07	-.1706-09	-.5284+02	-.1786-03	.2017-04
.6000+18	-.1123-04	.1733-07	-.2101-09	-.5284+02	-.1786-03	.2017-04
.7000+18	-.1204-04	.2005-07	-.2496-09	-.5284+02	-.1787-03	.2017-04
.8000+18	-.1486-04	.2280-07	-.2801-09	-.5284+02	-.1788-03	.2017-04
.9000+18	-.1677-04	.2851-07	-.3301-09	-.5284+02	-.1788-03	.2017-04
.10000+19	-.1868-04	.2833-07	-.3502-09	-.5284+02	-.1789-03	.2017-04
.2000+19	-.1603-04	.6124-07	-.7302-09	-.5284+02	-.1796-03	.2017-04
.3000+19	-.5532-04	.9160-07	-.1089-08	-.5284+02	-.1803-03	.2017-04
.4000+19	-.7370-04	.1221-06	-.1450-08	-.5284+02	-.1810-03	.2017-04
.5000+19	-.9199-04	.1513-06	-.1810-08	-.5284+02	-.1817-03	.2017-04
.6000+19	-.1104-03	.1840-06	-.2191-08	-.5284+02	-.1825-03	.2017-04
.7000+19	-.1287-03	.2143-06	-.2550-08	-.5284+02	-.1832-03	.2017-04
.8000+19	-.1471-03	.2470-06	-.2931-08	-.5284+02	-.1839-03	.2017-04
.9000+19	-.1654-03	.2735-06	-.3270-08	-.5284+02	-.1846-03	.2017-04
.10000+20	-.1838-03	.3041-06	-.3631-08	-.5284+02	-.1853-03	.2017-04
.20000+20	-.3670-03	.6097-06	-.7282-08	-.5284+02	-.1923-03	.2017-04
.30000+20	-.5498-03	.9117-06	-.1092-07	-.5284+02	-.1992-03	.2017-04
.40000+20	-.7322-03	.1211-05	-.1454-07	-.5284+02	-.2060-03	.2017-04
.50000+20	-.9141-03	.1507-05	-.1816-07	-.5284+02	-.2128-03	.2017-04
.60000+20	-.1096-02	.1799-05	-.2176-07	-.5283+02	-.2194-03	.2016-04
.70000+20	-.1277-02	.2092-05	-.2537-07	-.5283+02	-.2259-03	.2016-04
.80000+20	-.1459-02	.2383-05	-.2897-07	-.5283+02	-.2323-03	.2016-04
.90000+20	-.1634-02	.2669-05	-.3255-07	-.5283+02	-.2387-03	.2016-04
.10000+21	-.1818-02	.2954-05	-.3613-07	-.5283+02	-.2449-03	.2015-04
.20000+21	-.3577-02	.5681-05	-.7156-07	-.5282+02	-.3028-03	.2012-04
.30000+21	-.5340-02	.8206-05	-.1063-06	-.5282+02	-.3530-03	.2007-04
.40000+21	-.7052-02	.1055-04	-.1406-06	-.5281+02	-.3966-03	.2001-04
.50000+21	-.8733-02	.1274-04	-.1743-06	-.5280+02	-.4344-03	.1993-04
.60000+21	-.1039-01	.1470-04	-.2075-06	-.5280+02	-.4673-03	.1985-04
.70000+21	-.1202-01	.1671-04	-.2403-06	-.5279+02	-.4958-03	.1977-04
.80000+21	-.1362-01	.1852-04	-.2728-06	-.5279+02	-.5205-03	.1967-04
.90000+21	-.1521-01	.2023-04	-.3049-06	-.5279+02	-.5419-03	.1958-04
.10000+22	-.1678-01	.2185-04	-.3366-06	-.5278+02	-.5603-03	.1948-04
.20000+22	-.3168-01	.3503-04	-.6419-06	-.5277+02	-.6458-03	.1945-04
.30000+22	-.4575-01	.4583-04	-.9334-06	-.5277+02	-.6521-03	.1750-04
.40000+22	-.5942-01	.5619-04	-.1217-05	-.5277+02	-.6374-03	.1668-04
.50000+22	-.7207-01	.6669-04	-.1494-05	-.5278+02	-.6183-03	.1596-04
.60000+22	-.8620-01	.7745-04	-.1767-05	-.5279+02	-.5992-03	.1533-04
.70000+22	-.9945-01	.8844-04	-.2035-05	-.5281+02	-.5809-03	.1475-04
.80000+22	-.1127-00	.9959-04	-.2299-05	-.5282+02	-.5634-03	.1422-04
.90000+22	-.1258-00	.1109-03	-.2558-05	-.5283+02	-.5464-03	.1171-04
.10000+23	-.1399+00	.1222-03	-.2814-05	-.5284+02	-.5296-03	.1123-04
.20000+23	-.2606+00	.2314-03	-.5173-05	-.5297+02	-.3592-03	.9166-05
.30000+23	-.3996+00	.3276-03	-.7237-05	-.5310+02	-.1901-03	.5547-05
.40000+23	-.5294+00	.4102-03	-.9069-05	-.5323+02	-.3671-04	.2487-05
.50000+23	-.6587+00	.4809-03	-.1071-04	-.5336+02	-.9728-04	-.1980-06
.60000+23	-.7880+00	.5414-03	-.1220-04	-.5349+02	-.2127-03	-.2571-05
.70000+23	-.9172+00	.5935-03	-.1355-04	-.5362+02	-.3116-03	-.4684-05
.80000+23	-.1046+01	.6341-03	-.1479-04	-.5375+02	-.3963-03	-.6578-05
.90000+23	-.1175+01	.6769-03	-.1594-04	-.5388+02	-.4689-03	-.8289-05
.10000+24	-.1374+01	.7105-03	-.1701-04	-.5401+02	-.5313-03	-.9445-05
.20000+24	-.2592+01	.8896-03	-.2494-04	-.5530+02	-.8463-03	-.2045-04
.30000+24	-.3878+01	.9483-03	-.3033-04	-.5659+02	-.9422-03	-.2695-04
.40000+24	-.5164+01	.9666-03	-.3452-04	-.5787+02	-.9750-03	-.3177-04
.50000+24	-.6449+01	.9658-03	-.3798-04	-.5916+02	-.9817-03	-.3565-04
.60000+24	-.7734+01	.9538-03	-.4093-04	-.6044+02	-.9743-03	-.3490-04
.70000+24	-.9019+01	.9344-03	-.4350-04	-.6173+02	-.9579-03	-.4171-04

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE
AND RATE OF DISSOCIATION - Continued

(r) Wavelength interval from 2000.0 to 2025.0 Å

COLUMN DENSITY	A	B	C	D	E	F
.1000+18	-.15A9-05	.3725-10	-.9686-11	-.5276+02	-.7510-03	.8677-05
.2000+18	-.30N6-05	-.2831-09	-.1937-10	-.5276+02	-.7510-03	.8677-05
.3000+18	-.4402-05	-.1192-09	-.2980-10	-.5276+02	-.7510-03	.8677-05
.4000+18	-.5811-05	-.1341-08	-.2980-10	-.5276+02	-.7510-03	.8677-05
.5000+18	-.7319-05	.4694-09	-.4992-10	-.5276+02	-.7510-03	.8676-05
.6000+18	-.8623-05	-.1401-08	-.5066-10	-.5276+02	-.7510-03	.8676-05
.7000+18	-.1011-04	.6706-09	-.7004-10	-.5276+02	-.7509-03	.8676-05
.8000+18	-.1152-04	-.4917-09	-.7004-10	-.5276+02	-.7509-03	.8676-05
.9000+18	-.1243-04	-.1423-08	-.4121-10	-.5276+02	-.7509-03	.8676-05
.1000+19	-.1423-04	-.1453-08	-.9015-10	-.5276+02	-.7509-03	.8676-05
.2000+19	-.2836-04	-.2161-08	-.1803-09	-.5276+02	-.7507-03	.8675-05
.3000+19	-.4240-04	-.2936-08	-.2697-09	-.5276+02	-.7506-03	.8674-05
.4000+19	-.5662-04	-.4418-08	-.3599-09	-.5276+02	-.7504-03	.8673-05
.5000+19	-.7056-04	-.2064-08	-.4701-09	-.5276+02	-.7503-03	.8672-05
.6000+19	-.8459-04	-.6579-08	-.5402-09	-.5276+02	-.7501-03	.8671-05
.7000+19	-.9872-04	-.4351-08	-.6497-09	-.5276+02	-.7500-03	.8670-05
.8000+19	-.112A-03	-.7994-08	-.7205-09	-.5276+02	-.7498-03	.8670-05
.9000+19	-.1268-03	.6765-08	-.4285-09	-.5276+02	-.7497-03	.8669-05
.1000+20	-.140A-03	-.6318-08	-.9298-09	-.5276+02	-.7496-03	.8668-05
.2000+20	-.2814-03	-.1686-07	-.1822-08	-.5276+02	-.7481-03	.8659-05
.3000+20	-.4218-03	-.2572-07	-.2730-08	-.5276+02	-.7466-03	.8650-05
.4000+20	-.5622-03	-.3265-07	-.3643-08	-.5276+02	-.7451-03	.8641-05
.5000+20	-.7024-03	-.4089-07	-.4554-08	-.5276+02	-.7436-03	.8632-05
.6000+20	-.8425-03	-.4820-07	-.5465-08	-.5276+02	-.7421-03	.8624-05
.7000+20	-.9827-03	-.5337-07	-.6387-08	-.5276+02	-.7407-03	.8615-05
.8000+20	-.1123-02	-.5928-07	-.7310-08	-.5276+02	-.7393-03	.8606-05
.9000+20	-.1262-02	-.6574-07	-.8222-08	-.5276+02	-.7378-03	.8598-05
.1000+21	-.1462-02	-.7065-07	-.9145-08	-.5276+02	-.7364-03	.8590-05
.2000+21	-.2794-02	-.9789-07	-.1844-07	-.5276+02	-.7229-03	.8509-05
.3000+21	-.4177-02	-.8547-07	-.2785-07	-.5276+02	-.7102-03	.8435-05
.4000+21	-.5553-02	-.3622-07	-.3738-07	-.5276+02	-.6984-03	.8366-05
.5000+21	-.6920-02	-.4990-07	-.4702-07	-.5276+02	-.6874-03	.8301-05
.6000+21	-.8282-02	.1684-06	-.5674-07	-.5276+02	-.6771-03	.8241-05
.7000+21	-.9636-02	.3142-06	-.6654-07	-.5276+02	-.6674-03	.8185-05
.8000+21	-.1049-01	.4893-06	-.7641-07	-.5276+02	-.6584-03	.8133-05
.9000+21	-.1233-01	.6900-06	-.8633-07	-.5276+02	-.6499-03	.8083-05
.1000+22	-.1367-01	.9155-06	-.9631-07	-.5276+02	-.6419-03	.8037-05
.2000+22	-.2646-01	.4176-05	-.1978-06	-.5277+02	-.5829-03	.7680-05
.3000+22	-.3944-01	.8592-05	-.3001-06	-.5278+02	-.5465-03	.7427-05
.4000+22	-.5271-01	.1359-04	-.4020-06	-.5279+02	-.5210-03	.7217-05
.5000+22	-.6552-01	.1889-04	-.5029-06	-.5280+02	-.5011-03	.7026-05
.6000+22	-.7830-01	.2435-04	-.6027-06	-.5281+02	-.4843-03	.6846-05
.7000+22	-.9104-01	.2988-04	-.7014-06	-.5282+02	-.4693-03	.6672-05
.8000+22	-.1038+00	.3543-04	-.7990-06	-.5283+02	-.4554-03	.6503-05
.9000+22	-.1165+00	.4099-04	-.8956-06	-.5285+02	-.4422-03	.6337-05
.1000+23	-.1292+00	.4653-04	-.9911-06	-.5286+02	-.4296-03	.6174-05
.2000+23	-.2559+00	.9987-04	-.1895-05	-.5299+02	-.3171-03	.4650-05
.3000+23	-.3823+00	.1487-03	-.2721-05	-.5311+02	-.2205-03	.3283-05
.4000+23	-.50A6+00	.1929-03	-.3480-05	-.5324+02	-.1360-03	.2052-05
.5000+23	-.6348+00	.2328-03	-.4180-05	-.5336+02	-.6180-04	.9399-06
.6000+23	-.7610+00	.2688-03	-.4829-05	-.5349+02	.3768-05	-.7029-07
.7000+23	-.8871+00	.3012-03	-.5432-05	-.5362+02	.6189-04	-.9017-06
.8000+23	-.1013+01	.3305-03	-.5994-05	-.5374+02	.1136-03	-.1A36-05
.9000+23	-.1139+01	.3571-03	-.6521-05	-.5387+02	.1598-03	-.2612-05
.1000+24	-.1265+01	.3613-03	-.7016-05	-.5400+02	.2011-03	-.3329-05
.2000+24	-.2525+01	.5398-03	-.1081-04	-.5525+02	.4519-03	-.8421-05
.3000+24	-.3783+01	.6272-03	-.1349-04	-.5651+02	.5696-03	-.1164-04
.4000+24	-.5042+01	.6899-03	-.1567-04	-.5777+02	.6441-03	-.1410-04
.5000+24	-.6300+01	.7424-03	-.1755-04	-.5903+02	.7020-03	-.1616-04
.6000+24	-.7558+01	.7899-03	-.1923-04	-.6029+02	.7524-03	-.1797-04
.7000+24	-.8815+01	.8345-03	-.2077-04	-.6155+02	.7989-03	-.1961-04

TABLE I. - INTERPOLATION CONSTANTS FOR
CALCULATION OF TRANSMITTANCE
AND RATE OF DISSOCIATION - Concluded

(s) Wavelength interval from 2025.0 to 2050.0 Å

COLUMN DENSITY	A	B	C	D	E	F
.1000+18	-.1302-05	-.2190-08	.1043-10	-.5278+02	-.2752-03	.4136-05
.2000+18	-.2591-05	-.7749-09	.0000	-.5278+02	-.2752-03	.4136-05
.3000+18	-.3795-05	.1639-09	-.1043-10	-.5278+02	-.2752-03	.4136-05
.4000+18	-.4999-05	-.1997-08	.0000	-.5278+02	-.2752-03	.4136-05
.5000+18	-.6293-05	-.1125-08	-.9686-11	-.5278+02	-.2752-03	.4136-05
.6000+18	-.7500-05	.1848-08	-.2980-10	-.5278+02	-.2752-03	.4136-05
.7000+18	-.8705-05	-.2831-09	-.1937-10	-.5278+02	-.2752-03	.4136-05
.8000+18	-.9910-05	.6557-09	-.2980-10	-.5278+02	-.2752-03	.4136-05
.9000+18	-.1121-04	.6855-09	-.2980-10	-.5278+02	-.2752-03	.4136-05
.1000+19	-.1242-04	.1624-08	-.4023-10	-.5278+02	-.2752-03	.4136-05
.2000+19	-.2472-04	.4508-08	-.9015-10	-.5278+02	-.2752-03	.4136-05
.3000+19	-.3705-04	.9291-08	-.1512-09	-.5278+02	-.2751-03	.4135-05
.4000+19	-.4936-04	.1198-07	-.1997-09	-.5278+02	-.2751-03	.4135-05
.5000+19	-.6167-04	.1357-07	-.2399-09	-.5278+02	-.2751-03	.4135-05
.6000+19	-.7399-04	.1810-07	-.2995-09	-.5278+02	-.2751-03	.4135-05
.7000+19	-.8630-04	.2111-07	-.3502-09	-.5278+02	-.2751-03	.4135-05
.8000+19	-.9862-04	.2274-07	-.3904-09	-.5278+02	-.2751-03	.4135-05
.9000+19	-.1109-03	.2562-07	-.4403-09	-.5278+02	-.2751-03	.4135-05
.1000+20	-.1232-03	.2981-07	-.4910-09	-.5278+02	-.2751-03	.4134-05
.2000+20	-.2464-03	.6240-07	-.1010-08	-.5279+02	-.2750-03	.4133-05
.3000+20	-.3696-03	.9348-07	-.1510-08	-.5279+02	-.2749-03	.4132-05
.4000+20	-.4927-03	.1256-06	-.2022-08	-.5279+02	-.2748-03	.4130-05
.5000+20	-.6159-03	.1579-06	-.2532-08	-.5279+02	-.2747-03	.4129-05
.6000+20	-.7390-03	.1871-06	-.3022-08	-.5279+02	-.2746-03	.4128-05
.7000+20	-.8622-03	.2204-06	-.3543-08	-.5279+02	-.2745-03	.4127-05
.8000+20	-.9853-03	.2528-06	-.4055-08	-.5279+02	-.2744-03	.4125-05
.9000+20	-.1104-02	.2851-06	-.4565-08	-.5279+02	-.2743-03	.4124-05
.1000+21	-.1232-02	.3172-06	-.5078-08	-.5279+02	-.2743-03	.4122-05
.2000+21	-.2463-02	.6331-06	-.1014-07	-.5279+02	-.2733-03	.4109-05
.3000+21	-.3644-02	.9461-06	-.1518-07	-.5279+02	-.2724-03	.4096-05
.4000+21	-.4925-02	.1261-05	-.2023-07	-.5279+02	-.2715-03	.4083-05
.5000+21	-.6155-02	.1572-05	-.2526-07	-.5279+02	-.2706-03	.4070-05
.6000+21	-.7346-02	.1886-05	-.3030-07	-.5279+02	-.2697-03	.4057-05
.7000+21	-.8616-02	.2194-05	-.3530-07	-.5279+02	-.2688-03	.4044-05
.8000+21	-.9846-02	.2505-05	-.4032-07	-.5279+02	-.2679-03	.4031-05
.9000+21	-.1108-01	.2813-05	-.4531-07	-.5280+02	-.2669-03	.4018-05
.1000+22	-.1230-01	.3122-05	-.5031-07	-.5280+02	-.2660-03	.4005-05
.2000+22	-.2459-01	.6123-05	-.9957-07	-.5281+02	-.2571-03	.3478-05
.3000+22	-.3645-01	.9016-05	-.1478-06	-.5282+02	-.2483-03	.3754-05
.4000+22	-.4910-01	.1141-04	-.1952-06	-.5283+02	-.2398-03	.3633-05
.5000+22	-.6143-01	.1450-04	-.2416-06	-.5284+02	-.2314-03	.3515-05
.6000+22	-.7355-01	.1711-04	-.2871-06	-.5286+02	-.2233-03	.3400-05
.7000+22	-.8575-01	.1963-04	-.3317-06	-.5287+02	-.2153-03	.3287-05
.8000+22	-.9784-01	.2207-04	-.3755-06	-.5288+02	-.2075-03	.3177-05
.9000+22	-.1111+00	.2443-04	-.4185-06	-.5289+02	-.1999-03	.3070-05
.1000+23	-.1223+00	.2673-04	-.4608-06	-.5290+02	-.1925-03	.2965-05
.2000+23	-.2435+00	.4681-04	-.8445-06	-.5302+02	-.1278-03	.2041-05
.3000+23	-.3641+00	.6170-04	-.1171-05	-.5314+02	-.7778-04	.1301-05
.4000+23	-.4845+00	.7394-04	-.1453-05	-.5326+02	-.3906-04	.7004-06
.5000+23	-.6048+00	.8393-04	-.1702-05	-.5338+02	-.8845-05	.2036-06
.6000+23	-.7249+00	.9221-04	-.1923-05	-.5350+02	.1896-04	-.2143-06
.7000+23	-.8449+00	.9917-04	-.2124-05	-.5362+02	.3392-04	-.5713-06
.8000+23	-.9649+00	.1051-03	-.2307-05	-.5374+02	.4922-04	-.8814-06
.9000+23	-.1085+01	.1102-03	-.2476-05	-.5386+02	.6171-04	-.1154-05
.1000+24	-.1205+01	.1147-03	-.2633-05	-.5398+02	.7203-04	-.1398-05
.2000+24	-.2403+01	.1427-03	-.3888-05	-.5518+02	.1222-03	-.3023-05
.3000+24	-.3601+01	.1613-03	-.4760-05	-.5638+02	.1446-03	-.4080-05
.4000+24	-.4799+01	.1781-03	-.5537-05	-.5758+02	.1626-03	-.4937-05
.5000+24	-.5996+01	.1943-03	-.6231-05	-.5878+02	.1794-03	-.5685-05
.6000+24	-.7192+01	.2101-03	-.6866-05	-.5997+02	.1957-03	-.6361-05
.7000+24	-.8388+01	.2257-03	-.7455-05	-.6117+02	.2117-03	-.6984-05